### **UNITED NATIONS ENVIRONMENT PROGRAMME**

#### **ENVIRONMENT ASSESSMENT PROGRAMME**

**TECHNICAL REPORT** 

# A SURVEY OF GEOGRAPHIC INFORMATION SYSTEM AND IMAGE PROCESSING SOFTWARE 1995





#### **FOREWORD**

GRID, the Global Resource Information Database, was established in 1985 as a part of the environmental assessment activities of the United Nations Environment Programme (UNEP). GRID is dedicated to making environmental information more readily accessible to environmental analysts as well as international and national decision makers. Besides acquiring and disseminating integrated, spatially-referenced environmental data, GRID provides decision support services to environmental analysts and decision makers worldwide, and fosters the use of Geographic Information System (GIS) and satellite Image Processing (IP) as tools for environmental analysis.

In order to assist resource managers and environmental planners in selecting and procuring GIS and IP software systems, GRID conducts a worldwide biennial survey of GIS and IP software systems. This survey was conducted in 1991 and 1993, and the results were published and distributed freely among UN organizations, international aid agencies, national governments, and other organizations interested in GIS and IP technologies. In keeping with the original intent of providing current, updated information, the survey was repeated in 1995 and the results are presented here.

The survey was conducted by Caroline Fenno. Gene Fosnight, Dawn Buehner, LuAnne Pfeifle and Linda Black provided support in compiling and finalizing this report. An electronic version of the report is available on the Internet at the following address: http://grid2.cr.usgs.gov/grid/grid.html. The support provided by the National Aeronautics and Space Administration (NASA) and the United States Geological Survey (USGS), EROS Data Center, is gratefully acknowledged.

Ashbindu Singh
Regional Coordinator
UNEP Environment Assessment Programme
for North America

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We regret any errors or omissions that we may have unwittingly made.

Opinions expressed in this document are not necessarily those of the United Nations Environment Programme.

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#### 1. INTRODUCTION

#### 1.1 Geographic Information Systems (GIS)

The concepts behind GIS technology were developed decades ago in the use of transparent map overlays for examining spatial relationships between features on maps of differing thematic emphasis. The use of computers for processing map data was pioneered at the Harvard School of Landscape Design during the mid 1970s.

The development of GIS marks a major transition in the use of computers for processing data. Computers were invented to process numbers and solve mathematical problems. Shortly thereafter techniques of encoding letters as sequences of numbers allowed computers to be able to process words and documents. The advent of GIS was marked by the development of methods for modeling and manipulating spatial information and relationships using computers. Early GIS software was developed on mainframe computers. With the increased speed, sophistication, and storage capacities of computers—especially minicomputers, workstations, and personal computers—GIS software has been migrating to more accessible levels of technology. Thus, GIS capabilities are now within reach of anyone who has work to do that involves the manipulation and/or analysis of spatial data.

Even though GIS technologies have been evolving for nearly 30 years, an agreed upon definition of GIS still eludes us. Probably the best definitions are sufficiently broad to allow for substantial latitude in interpretation. All GIS professionals recognize that, to be a GIS, a system must handle spatial data. However, more elaborate definitions such as a computer-based information system that allows capture, verification, storage, retrieval, analysis, update, and output of data which are spatially referenced to the Earth (geo-referenced), may help to clarify (slightly) what a GIS might be.

The basic hardware elements of a GIS include (1) a spatial data input device such as digitizing tablet or raster scanner; (2) a central processing unit (CPU); (3) a visual display device for interaction and visual analysis; (4) disk storage capability for data storage; and (5) an output device such as plotter or printer. In addition to having the software necessary for manipulating, searching, and analyzing spatial data, a GIS must also include software for driving the input and output devices listed above.

In this context, some general functional capabilities of GIS typically include map digitizing, digital map editing, topological structuring, map display and query, map projection, network flow analysis, vector overlay analysis, buffer generation, cell-based modeling, surface modeling, map composition, and hardcopy output.

Because of the general emphasis of GIS on the processing, manipulation, and analysis of spatial data, and because so many human activities occur and have effects in the spatial domain, GIS technologies are applied in a wide variety of fields such as agriculture, land use planning, wildlife conservation, forestry management, fisheries, geology, archeology, hydrology, urban planning, environmental management and monitoring, climate change studies, and others. Since most environmental and natural resource data have locational references, GIS technologies have enormous potential in facilitating sound management of natural resources and the environment.

#### 1.2 Image Processing Systems

Interest in digital image processing can be traced back to the 1920s when digitized pictures of world events were first transmitted by submarine cable between New York and London. However, it was

not until the 1960s that applications of digital image processing techniques became widespread. This decade was marked by substantial increases in digital computing capacities and the establishment of the U.S. space program. This combination of events led to rapid growth in the development of systems for processing the imagery that was coming out of the space program. Since then, the continued exponential increases in speed and storage capacities of computers has greatly accelerated improvements in accessibility, performance, and sophistication of image processing systems.

As with GIS, image processing systems work with data that have a substantial spatial component. The spatial information in images is, however, not explicitly encoded in the data. Rather, it is inferred from the proximate relationships of the picture elements (pixels) to each other. The capabilities for processing image data are now also within reach of anyone who has serious work that involves the manipulation of digital image representations of real world phenomena.

The definition of an image processing system is probably even less clear than that of a GIS, as the applications of image processing are even more broad. Image processing applications cover the spectrum ranging from handwritten character recognition to land cover mapping. For purposes of this survey, however, an implicit assumption was made to constrain the definition of image processing systems. Image processing systems in this context must have been designed primarily to manipulate and analyze image data derived from earth-looking satellite or airborne sensors.

At the heart of any image processing system is the computer's central processing unit. Special purpose computers have been built that contain array processors for performing parallel computations. However, most readily available image processing software has been targeted towards more general purpose computer platforms such as workstations and personal computers. Other hardware components of a complete image processing system include (1) an input device such as a tape or disk drive; (2) a display device for interaction and visual analysis; (3) vast quantities of disk storage capacity as images can get very large; and (4) an output device such as a plotter or printer. The final component of an image processing system is the software that drives all of these devices and performs the various image manipulation algorithms used to aid in the extraction of information from the image data.

In this context, some general functional capabilities of image processing systems typically include interactive display, image enhancement, geometric rectification, spatial filtering, image mosaicking, fourier analysis, radiometric corrections, multi-variate analysis, raster-gis modeling, radar geocoding and analysis, image annotation, and hardcopy output.

Digital image processing techniques have been and are being used in a variety of applications including geology, petroleum exploration, archeology, physics, astronomy, biology, nuclear medicine, electron microscopy, law enforcement, defense, natural resource monitoring, environmental assessment, and others. The applicability of image processing technologies for monitoring, mapping, and managing natural resources and for monitoring various environmental phenomena using satellite derived imagery cause these technologies to be of particular interest to environmental and natural resource agencies and institutions.

#### 1.3 Other Spatial Data Systems

While this survey was intended to focus on GIS and IP systems, it was anticipated that some of those surveyed would offer products in one of the closely related fields of Automated Mapping and Facilities Management (AM/FM) or Computer Aided Design (CAD). Both are closely related to GIS, but are much more limited in scope and application.

AM/FM systems are generally less sophisticated than full scale GISs in their capabilities for manipulating spatial data and analyzing relationships between elements. AM/FM systems are often used by utility companies to record and keep track of power lines, gas lines, valves, meters, land, etc. One of their primary purposes is to make the task of producing maps of facilities easier. The more sophisticated systems allow for modeling connectivity and flow, among other things.

While CAD systems are used to model entities that occur in space, the geometric nature of these entities is generally far more simple than many of the real world phenomena that are modeled in a GIS. CAD systems typically deal with geometry that contains many horizontal and vertical lines, regular angles, circular and other smooth curves, etc. GIS systems, on the other hand, deal with lines of a fractal nature, such as coastlines and contours. And in terms of spatial relationships, topology is more important in GIS than in CAD.

Thus, while the similarities between GIS, AM/FM, and CAD are many, the differences are also quite significant. It is important that the reader be aware of these differences, when trying to match a system to both present and anticipated future needs.

#### 2. OBJECTIVES AND SCOPE OF SURVEY

The objectives of this survey are much the same as they were in 1993: to provide potential users of GIS and IP software with basic information about what systems are available, something about the capabilities of these systems, and to provide references for obtaining more detailed information on the various systems. It is intended to be somewhat of an introductory "buyers-guide" to GIS and IP software systems. An additional objective was to do a comparative analysis between years in an attempt to identify trends or advances in the GIS and IP software industries. This survey is not unique in this regard. Others have and will continue to perform similar surveys and produce similar reports. Examples include:

"A survey of Geographic Information Systems - for natural resources decision making, 1987," The American Farmland Trust, Washington, D.C.

"Directory of Geographic Information Systems and Related Products and Services 1990," Earth Observation Satellite Company (EOSAT), Maryland, U.S.A.

"The 1995 International GIS Sourcebook" (updated annually since 1989), GIS World, Ft. Collins, Colorado, U.S.A.

However, audiences for each of these tend to be quite different, and most publications are not readily available to environmental agencies and institutions in developing countries.

#### 3. SURVEY METHODOLOGY

The questionnaire was slightly reformatted for the 1995 survey, and it was mailed to 332 companies and institutions in 28 countries that were believed to be distributing either GIS, IP, or related software systems. The list of survey recipients was derived from a list of vendors used for the 1993 survey with additions from the 1995 International GIS World Sourcebook's listing of software vendors and a few additions from personal contacts within the GRID system. The questionnaire was also also designed in HyperText Markup Language (HTML) so that respondents could view and respond to

it on the World Wide Web (WWW) at Uniform Resource Locator (URL) http://grid2.cr.usgs.gov/grid/survey.html. The WWW page was created to increase the level of participation or response rate among the recipients of the questionnaire by providing another means to participate in the survey.

As in 1993, the questionnaire was designed to elicit information about the general characteristics, operating environments, supported peripherals, and functional capabilities of the software systems. It was designed with the idea that developing country personnel would be the primary consumers of the information being collected, and at the same time keeping in mind that the survey should be as little of an inconvenience as possible to those who are tasked with completing the questionnaire. A copy of the guestionnaire has been included in Appendix B.

Of the 332 organizations to whom the questionnaire was sent, 64 organizations responded without any extra prompting. In addition, four companies which were *not* on our mailing list noticed our survey on the WWW and responded to it. However, about 66% of the organizations that responded in 1993 did not respond in 1995. In the interest of doing a comparative analysis between the 1995 and 1993 results, some extra effort was made to encourage a response from these particular recipients. A simple reminder along with another copy of the questionnaire was faxed to these organizations after the stated deadline for responding had past. This extra effort resulted in only three more responses coming in.

#### 4. RESULTS OF THE SURVEY

The responses to the questionnaire have been included in their entirety in Appendix C of this report. The only exceptions being when respondents sent official product and/or company brochures; it was simply not feasible to include this information in the report. Interested readers are encouraged to contact the organizations directly for such detailed information. The complete responses in Appendix C are organized in the same manner that the results are presented in Summary Table - 1995 Responses.

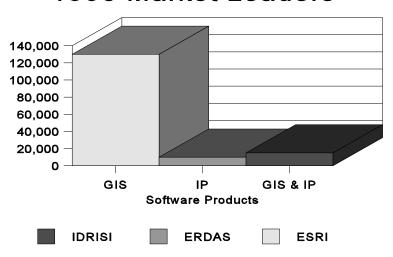
The Summary Table was designed to give the reader a comparative look at the various products. The information presented in the table is deemed to be some of the most important high level information that prospective buyers may use to quickly sort through the various products to narrow their field of search. The table is organized alphabetically by product name. Once the preliminary evaluations have been made at this high level, the reader can turn to Appendix C for more specific and detailed functional and descriptive information about the various products. And finally, if the reader desires even more information, it can be obtained through the organizational contacts also contained in Appendix C.

#### 5. SURVEY FINDINGS/OBSERVATIONS

#### 5.1 Number of Responses

A total of 62 organizations from 14 countries offering GIS, IP, or closely related software products responded to the survey with widely varying levels of completeness. Another 4 organizations offering complementary software products responded to the survey; they have been included in Appendix A of this report. In addition, 5 organizations that engage in consulting services related to GIS and IP responded with a desire to obtain a copy of the completed report.

#### 1995 Market Leaders



Of the 65 organizations that responded to the survey in 1993, only 23 responded again in 1995. In addition, only 7 organizations have replied to the survey consistently since its beginning in 1991. It would only be a matter of conjecture as to why many organizations have not responded.

#### 5.2 Number of Installations

The total number of licensed users of GIS and IP software reported by the respondents to the 1995 survey is 221,981. An analysis of the figures regarding the distribution of licensed users by continent reveals that approximately 52% of the installations are in North America, 25% in Europe, 9% in Asia, 6% in South America, 5% in Australia, and 3% in Africa. (See Appendix A.)

#### **5.3 Industry Growth**

Because of the differences in both the numbers and identities of the organizations that responded to the survey, it is a bit of a challenge to compare results between years. By comparing the total number of installations reported by the 23 organizations that responded to both surveys, one might conclude that the number of users has increased by almost a factor of three (62,514 to 166,368). A closer look at the responses reveals that when we excluded the number of Environmental Systems Research Institute's (ESRI) product installations from the comparison, the number of installations increased only 1.3 times from 1993 to 1995 (26,097 to 36,368). Keep in mind that these figures are just a comparison of the 23 organizations that responded in both 1993 and 1995. Overall, the number of installations among the organizations that responded in 1995 compared to those that responded in 1993 has increased significantly (91,009 to 221,981).

#### 5.4 Market Leaders

As was shown in the previous surveys, ESRI is still clearly the market leader in GIS software products, in terms of number of installations (130,000 reported) worldwide. In the area of full featured image processing systems, ERDAS is still the leader with 10,000 installations. And for both basic GIS and IP capability at a low price, IDRISI's product for PCs is still the leader with 15,000 installations. The number of installations varies a great deal from vendor to vendor. These market leaders represent the high end of the spectrum. On the other end, some relative newcomers reported having as few as one installation at the time the survey was completed.

#### 5.5 New Product Introductions

Since GIS and IP technologies are still relatively young, many companies are introducing new products at a fairly rapid pace. A look at the distribution of products by year of first installation reveals the significant increase in number of offerings since the latter half of the '80s. The distribution by year of first installation follows:



#### 5.6 Functionality and Price

The software systems represented in this survey vary widely in their functional capabilities as well as in their prices. More than 70 percent of the respondents indicated that their products include GIS functionality, about a third consider their products to be IP systems, approximately 10 percent offer some form of AM/FM system, and almost half offer either CAD or some other GIS or IP related software. Some systems offer a broad range of both GIS and IP functionality, others specialize in one of these two major functional areas, while still others have much more specialized market niches. There is not necessarily a direct relationship between functional capability and price. The commercial products range in price from a few hundred dollars to a few thousand and even up to several tens of thousands of dollars. There are also a couple of very capable systems that are in the public domain; however, support may be limited.

#### 5.7 Technical Features

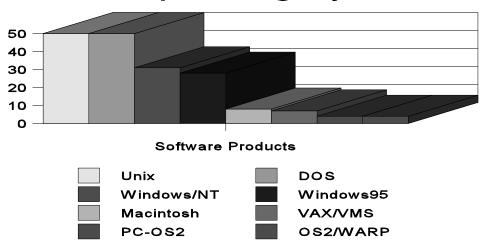
Technical sophistication of the software products included in this survey can also vary widely. About 20 percent of the systems are purported to have an expert system capability built into them; over 50 percent indicated having an object-oriented software architecture; 75 percent claim to utilize a spatial index to improve efficiencies; approximately 75 percent report to having an integrated data base management system (DBMS); and almost 90 percent report to having the capability to link to an external DBMS. In addition to the built in functionality of the systems, approximately 60 percent offer linkable libraries for data structure access, allowing users to write their own application software utilizing the same data structures; and source code can be obtained for about 20 percent of the systems. The responses to questions about source code and linkable libraries indicate that C is the language of choice for developing GIS and IP systems. While C++ is becoming a very popular language also, there is a noticeable decrease in the use of FORTRAN.

#### 5.8 Turnkey Systems

A little more than half of the vendors responding to the survey are willing to provide turn-key solutions (bundled hardware and software) for their clients. Some offer standard packages, while others prefer to tailor the configuration to a user's specific needs.

#### **5.9 Software Support**

## 1995 Operating Systems



More than 80 percent of the organizations that responded to the survey indicated that they offer worldwide software support for their products. Almost all of the remainder offer support for a limited portion of the world. Only a couple of respondents indicated that no support is available.

#### **5.10 Training Assistance**

About 90 percent of the organizations responding to the survey offer training courses for their clients, about 85 percent offer training assistance in the form of courses, almost half offer tutorials, and about 6 percent offer training videos for their products.

#### 5.11 Operating Systems

The most common operating systems supported for the various products were Unix and Microsoft DOS, with about 50 software products offered on each. Windows/NT and Windows/95 (a newly released operating system) were the third and fourth most offered with 31 and 28 products each, respectively. Apple Computer Corporation's Macintosh was a distant fifth with 8 products offered on it, Digital Equipment Corporation's (DEC) VMS was sixth with 7 products, and International Business Machine's (IBM) OS2 and OS2/WARP were reported to support 4 products each. The most readily apparent trend since the 1993 survey was an increase in Windows operating systems that are offered, especially since the arrival of Windows/95. Unix and DOS were both represented in similar proportions in 1995 as in 1993.

#### 5.12 User Interfaces

The trend towards windows based applications and graphical user interfaces throughout the software industry is occurring with GIS, IP, and related applications. While almost a third of the products have simple command line interfaces, more than 75 percent of the products have a menu based interface. Some products apparently have more than one type of user interface.

#### 5.13 On-line Help

Nearly all of the systems (approximately 90%) offer some form of on-line help. Almost half of the products have a context sensitive help facility, and about one-third have basic on-line help. About

a third of the products are reported to have a full hypertext help facility incorporated into the software system. Some of the systems have more than one type of help facility included.

#### 5.14 Documentation

While users' guides and related documentation have traditionally been distributed in hard copy form, more than half of the respondents indicated that their documentation is available in electronic and hard copy form. Approximately one-third offer only hard copy documentation, and six respondents only an electronic version. Almost all vendors offer an English version of their software documentation. About one-fourth of respondents offer a French version, a little more than 10% offer a German version, approximately 10 percent offer Spanish, and even fewer respondents offer documentation in languages such as Swedish, Italian, Dutch, Japanese, Portuguese, Danish, Greek, and Russian.

#### 6. CONCLUSIONS

It is hoped that this survey provides a fairly comprehensive look at the worldwide offerings in GIS and IP software systems. The number of respondents was down from 65 in 1993 to 62 in 1995. And by including the 41 that responded in 1993 but not 1995, this report covers GIS, IP, and related software products offered by 103 different organizations from at least 19 different countries around the world. From the results of this survey, it is quite apparent that the proliferation of GIS and IP technologies is continuing at a very rapid pace—predominantly in North America and Europe. As of late 1995, there were reported to be approximately a quarter of a million installations of GIS, IP, or closely related software systems worldwide.

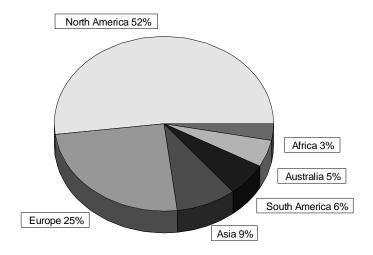
This report is intended to provide basic information about GIS and IP systems along with names, addresses, and phone numbers of the organizations that provide these systems to potential users in the developing world. No attempt was made to evaluate the functional capabilities of the systems nor to perform benchmark tests of the systems. All the product specific information contained in this report was compiled based on replies received from software vendors. UNEP/GRID takes no responsibility for inaccuracies that may have been present in the vendor responses. It is not recommended that any purchasing decisions be made based solely on the information contained herein. Potential users should contact the software vendors directly for more detailed information as necessary.

**SUMMARY TABLE - 1995 RESPONSES** 

# APPENDIX A 1995 AND 1993 GIS & IP INSTALLATIONS

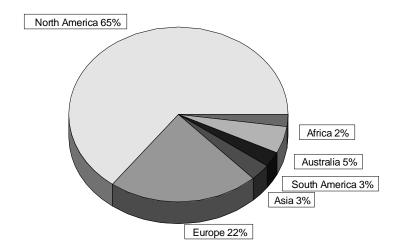
## 1995 Survey: Number of Installations

(221,981 Reported Licensed Users)



## 1993 Survey: Number of Installations

(93,898 Reported Licensed Users)



# APPENDIX B COMPLEMENTARY PRODUCTS

#### **COMPLEMENTARY PRODUCTS**

A few companies offering products that are complementary to GIS and IP systems responded to the questionnaire. While it was not appropriate to intermix these products with the others in the tables, neither did it seem appropriate to leave them out completely. Thus, they are presented here in very brief form, and the reader is encouraged to contact these vendors directly if more information is desired.

Geographic Data Technology, 11 Lafayette St., Labanon, NH, USA, 03768, phone 800-331-7881 x1124. Contact Donald Crolee. They sell map databases.

Harrison Resource Corporation, 760 Whalers Way, Suite A-200, Fort Collins, CO, USA, 80525, phone 800-447-6155, fax 970-226-6300, e-mail 75277.1250@compuserve.com. Contact Randy L. Majors. They sell 120 layers of Colorado data, (demographic, topographic, natural resource, hydrographic, physical feature, legal boundary, environmental hazards, general reference, buffer, solution).

Lenzar Electro-optics, 3960 RCA Blvd., #6001, Palm Beach Gardens, FL, USA, 33410, phone 407-775-2600, fax 407-775-9100, e-mail lenzar@gate.net. Contact Elena Penta. They sell a digitizing scanner (LENZPRO 2001) for Unix operating systems.

Tele Atlas, Moutstraat 42, 9000 Gent, Belgium, phone 32-9-222-56-58, fax 32-9-222-74-72, e-mail info@teleatlas.be. Contact Anne Marie Vanden Berghe or Ad Bastiaansen. They offer many digital maps (StreetNet, StreetMap, RoadNet, BoundaryMap.

APPENDIX C

QUESTIONNAIRE

## UNITED NATIONS ENVIRONMENT PROGRAMME GLOBAL RESOURCE INFORMATION DATABASE

Geographic Information Systems (GIS) and Image Processing (IP) Systems Survey, 1995

Please return a completed questionnaire for each product to Caroline Fenno, UNEP/GRID, EROS Data Center, Sioux Falls, SD, 57198, USA.

Direct questions/comments to Caroline Fenno at cfenno@grid2.cr.usgs.gov (e-mail), or 605-594-6064 (voice) or 605-594-6529 (fax).

PRODUCT NAME:	
COMPANY/ORGANIZATION	
Company Name:	
Company Name:	
Contact Person(s):	
Street Address:	
City, State:	
Zip, Country:	
Phone:	
Fax:	
Email:	
1. Type of product:	
☐ GIS ☐ Image Processing ☐ AM/FM ☐ CAD ☐ Other:	
LICENSING/PRICING	
2. Is the product public domain <i>or</i> commercial?	
♦ Public Domain:	
Costs for Distribution/Documentation:	
♦ Commercial Product	
Licensed by: ☐ User ☐ System ☐ Site ☐ Other:	
License fee is: ☐ One Time Charge ☐ Other Charge:	
3. Turnkey system available (bundled hardware & software): 🛇 Yes 🛇 No	
4. Basic (minimal) software system cost:	<u> </u>
5. Complete (fully capable) software system cost:	

USE	USER BASE					
6.	Total number of licensed users:					
7.	Number of licensed users by continent:	Africa:				
		Asia:				
		Australia:				
•	Variable Continue Harton		nerica:			
8.	Year of first installation:					
SUP	PORT/UPDATES					
JUF	FORITOFDATES					
9.	Training available:   Courses   Vide	eos 🛭 Tutorials	Other:			
10.	Software support available:   Worldwi	de 🔲 Not Avai	lable 🚨 Other:_			
11.	11. Cost of support:  Included in License  Other:					
12.	12. Software updates:  Annually  Semiannually  Other:					
13.	13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other:					
Doc	Documentation/Interface					
14.	System documentation available as:	Hardcopy $\Box$	Electronic Files			
15.	Languages available: Arabic	☐ Bengali	☐ English	French		
	☐ German	Hindi	☐ Japanese	☐ Mandarin		
	☐ Portuguese	Russian	☐ Spanish	Other:		
16.	Online help:   Basic Context Sensi	tive 🛭 Hyperte	ext 🗖 N/A			
17.	7. User interface:  Command Line  Menus  User-Customizable Menus					
	☐ User-Generated Macros ☐ Other:					

# **TECHNICAL/FUNCTIONAL 18.** Operating systems supported: ☐ UNIX/X-Windows ☐ PC-DOS/Windows ☐ Windows95 ☐ Windows/NT ☐ MacIntosh ☐ PC-OS/2 ☐ OS/2 WARP □ VAX/VMS □ Other:\_\_\_\_\_ If UNIX/X-Windows, list vendors and window managers supported: 19. Minimum hardware configuration: 20. Devices supported: (Please list) **INPUT OUTPUT** Digitizers: ☐ Frame Grabbers:\_\_\_\_\_ ☐ Scanners: GPS: ☐ CD-ROM: Diskette: ☐ Displays: ☐ Film Recorders: ☐ Electrostatic Plotters: Pen Plotters:

☐ Ink Jet Printers:	
☐ Laser Printers:	
Others:	
21. Source code available:	+ D FORTRAN D Pascal D Other:
♦ No	
22. Batch capability: 🛇 Yes 🛇 No	
23. Linkable libraries for data structure access:	♦ Yes: □ C □ C++ □ FORTRAN
	☐ Pascal ☐ Other:
	♦ No
24. Integrated Data Base Management System: 🗘	Yes ♦ No
25. Data Base File Types Supported:	☐ Foxbase ☐ IMS ☐ INFO ☐ Intergraph
☐ Lotus	☐ Oracle ☐ Paradox ☐ Progress
☐ Sybase	e 🗖 Other:
26. Data Exchange Formats Supported:	
27. If GIS Product:  Vector Raster	
28. GIS Functionality:	
☐ Map Digitizing	☐ Map Display & Query
☐ Digital Map Editing	☐ Change Map Projections
☐ Topographical Structuring	☐ Datum Changes
☐ Network Flow Analysis	☐ Vector Overlay Analysis
Cell-based (Raster) Modeling	☐ Surface Modeling
☐ Map Composition/Generation	☐ Buffer generation
☐ Raster-Vector Conversion	☐ Line-of-Sight Analysis
☐ Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement

	☐ Geometric Rectification	☐ Spatial Filtering		
	☐ Image Mosaicking	☐ Fourier Analysis		
	☐ Radiometric Corrections	☐ Multivariate/Statistical Analysis		
	☐ Raster GIS Modeling	☐ Radar Geocoding & Analysis		
	☐ Hardcopy Map Comp./Anno.	☐ Principal Components Analysis		
	☐ Filtering	☐ Density Slicing		
	☐ Supervised Classification	☐ Unsupervised Classification		
30. Multi-use	r Capability: ♦ Yes ♦ No			
31. Expert sy	stem capability: 🛇 Yes 🛇 No			
32. Spatial index supported: ♦ Yes ♦ No				
33. Object Oriented Architecture: ♦ Yes ♦ No				
Please describe additional features:				

**APPENDIX D** 

**SURVEY RESPONSES** 

#### PRODUCT NAME: ACTIONPLAN

COMPANY/	ORGANIZATION				
Co	mpany Name:	Management) Ltd.			
Co	ntact Person(s):	John Page			
Str	eet Address:	Ashton Road			
Cit	y, State:	Hilperton, Nr. Trowb	oridge, Wiltshire		
Zip	Zip, Country: BA14 7SZ				
Ph	one:	44-01225-751616			
Fax	x:	44-01225-751616			
Em	nail:	N/A			
1.	Type of product: ■ GIS □ Image Process	sing □ AM/FM □	□ CAD □ Other:		
LICENSING	/Pricing				
USER BAS	BE .				
6.	Total number of licensed	d users: <u>150</u>			
7.	Number of licensed user	rs by continent:	Africa:		
		A	Asia:		
		A	Australia:		
		E	Europe: 150		
		1	North America:		
		\$	South America:		
8.	Year of first installation:	1988			
Support/Updates					
	<u> </u>				
9.	Training available: ■ C	ourses 🗆 Videos 🛭	☐ Tutorials ☐ Other:		
_	•				
11.	Software support available: ■ Worldwide □ Not Available □ Other:				
12.					
	B. Cost of updates: ■ Included in License or Maintenance Contract □ Other:				

DOCUMEN	TATION/INTERFACE				
14.	System documentation availa	ble as: ■ Hardcopy	□ Electronic Files		
15.	Languages available: 🗆 Arab	ic 🖵 Benga	li ■ English	☐ French	
	□ Germ	nan 🖵 Hindi	□ Japanese	Mandarin	
	☐ Portu	iguese □ Russia	an 🗆 Spanish	☐ Other:_	
16.	Online help:   Basic   Con	text Sensitive 🛭 Hype	rtext ■ N/A		
17.	User interface: ☐ Comman	d Line □ Menus ■	User-Customizable Men	us	
	■ User-Ger	nerated Macros   Oth	er: Touch screen butto	ons user customizable	
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported	I: □ UNIX/X-Windows	□ PC-DOS/Windows	☐ Windows95	
			facIntosh ☐ PC-OS/2		
		□ VAX/VMS ■ Oth	er: PC-DOS only		
19.	Minimum hardware configura	tion: IBM compatible	486 66MHZ PC with 16	MB RAM_	
20.	Devices supported:				
		INPUT	OUT	PUT	
	☐ Digitizers:		_		
	☐ Frame Grabbers:		_		
	☐ Scanners:		_		
	■ GPS:Various				
	■ CD-ROM:		-		
	■ Diskette: 3.5 inch				
	☐ Tape:				
	■ Displays:		SVGA monitor.	optional touch	
			screen		
	☐ Film Recorders:				
	<ul><li>☐ Electrostatic Plotters:</li><li>☐ Pen Plotters:</li></ul>				
	■ Ink Jet Printers:		HP compatible HPCI	and	
	ink det i inters.		•	ed	
	■ Laser Printers:		HP and others		
	☐ Others:				
21. Sou	rce code available: ♦ Yes: □	C □C++ □FORTR	AN □ Pascal □ Othe	r:	
	♦ No				
22. Bate	ch capability: ♦ Yes ♦ No				
23. Lini	kable libraries for data structur	e access: ♦ Yes: □	C □C++ □FORTRA	N	
			Pascal 🛘 Other:	<u></u>	
		♦ No			
24. Inte	grated Data Base Management	System: ♦ Yes ◇ No	)		
25. Data	a Base File Types Supported:	□ dBase □ Foxbase	□ IMS □ INFO □ Inte	rgraph	
		☐ Lotus ☐ Oracle ☐	Paradox ☐ Progress		
		☐ Sybase ■ Other: _	Action Information (Ma	nagement) Ltd.'s	
		<u>.</u>	proprietary database for	ormat	

26. Data Exchange Formats Supported: not re	<u>ported</u>
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
☐ Map Digitizing	■ Map Display & Query
Digital Map Editing	□ Change Map Projections
Topographical Structuring	□ Datum Changes
Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	□ Surface Modeling
Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	Image Enhancement
Geometric Rectification	Spatial Filtering
☐ Image Mosaicking	Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
□ Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	

Please describe additional features: ActionPlan offers fast display and intuitive operation. As Windows becomes universally accepted it is anticipated that the DOS based Action Plan will be superceded by ActionPlan for Windows.

PRODUCT NAME: A.L.I.C.E. - CASTASTO STRADE

COMPANY/	ORGANIZATION			
Co	mpany Name:	EL.DA.INGEGNERIA S.P.A.	_	
Co	ntact Person(s):	not reported	_	
Str	eet Address:	Via Damiano Chiesa, 5	<u> </u>	
City	y, State:	Treviso	<u> </u>	
Zip	, Country:	TV31100, Italy	<u> </u>	
Pho	one:	39-422-411160		
Fax	x:	39-422-411217	_	
Em	nail:	MC 7192@mclink.it	_	
1.	Type of product:			
	■ GIS □ Image Process	sing 🗆 AM/FM 🗅 CAD 🗅 Other:		
	(D.			
LICENSING	/PRICING			
2.	Is the product public do			
	◆ Commercial Pro			
	<del>-</del>	User 🗆 System 🗅 Site 🗅 Other:		
	License fee is:	■ One Time Charge □ Other Charge:		
3.	Turnkey system availal	ole (bundled hardware & software): ♦ Yes ♦ No		
4.	4. Basic (minimal) software system cost: not reported			
<b>5</b> .	5. Complete (fully capable) software system cost: not reported			
USER BAS	F			
OOLK DAO	<b>-</b>			
_				
	Total number of license	·		
7.	Number of licensed use	-		
		Asia:		
		Australia:		
		Europe:		
		North America:		
		South America:		
8.	Year of first installation	: not reported		
SUPPORT/U	JPDATES			
		_		
9.	<u>-</u>	Courses		
10.	Software support available	able: ☐ Worldwide ☐ Not Available ☐ Other: not reported		
11.	Cost of support: ☐ Included in License ☐ Other: not reported			
12.	Software updates: ■ A	nnually 🛘 Semiannually 🗘 Other:		
13.	Cost of updates: ■ Included in License or Maintenance Contract □ Other:			

DOCUMEN	I A HON/IN I ERFACE				
14.	System documentation available	ole as: ■ Hardcopy ■	Electronic Files		
	Languages available: ☐ Arabi	• •		□ French	
	□ Germ	an 🖵 Hindi	☐ Japanese	■ Mandarin	
	☐ Portu	guese 🛚 Russian	□ Spanish	■ Other: <u>Italian</u>	
16.	Online help: ■ Basic □ Cont	ext Sensitive 🛚 Hyperte	xt □ N/A		
17.	User interface: ☐ Command	Line ■ Menus ■ Use	er-Customizable Me	nus	
	■ User-Gen	erated Macros 🛚 Other:	<u> </u>		
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported	: ■ UNIX/X-Windows ■	PC-DOS/Windows	□ Windows95	
	3.,	■ Windows/NT □ Mad			
		□ VAX/VMS □ Other:_			
	If UNIX/X-Windows, list vendors			IF; SUN_	
19.	Minimum hardware configurat	ion: not reported			
20.	Devices supported:				
		INPUT	OU	TPUT	
	■ Digitizers:				
	☐ Frame Grabbers:				
	Scanners:				
	■ GPS:				
	■ CD-ROM:				
	Diskette:				
	■ Tape:				
	■ Displays:				
	<ul><li>■ Film Recorders:</li><li>■ Electrostatic Plotters:</li></ul>				
	Pen Plotters:				
	■ Ink Jet Printers:		-		
	■ Laser Printers:	_			
	☐ Others:				
21. Sou	ırce code available: ◇ Yes: 🖵 (	C □ C++ □ FORTRAN	□ Pascal □ Othe	r:	
	♦ No				
22. Bate	ch capability: ♦ Yes ♦ No				
23. Lini	kable libraries for data structure	access: ◆ Yes: ■ C	□ C++ □ FORTR	AN	
		□ Pa	scal 🛚 Other:		
		♦ No			
24. Inte	grated Data Base Management	System: ◆ Yes ◇ No			
25. Data	a Base File Types Supported:	■ dBase □ Foxbase □	IMS □ INFO □ Inte	ergraph	
		☐ Lotus ■ Oracle ☐ Pa	<del>-</del>		
		■ Sybase □ Other:			
26. Data	a Exchange Formats Supported	: not reported			

27. If GIS Product: ■ Vector ■ Raster

28.	GIS	Functionality:
-----	-----	----------------

■ Map Digitizing ■ Map Display & Query ■ Digital Map Editing ■ Change Map Projections ■ Topographical Structuring □ Datum Changes ■ Network Flow Analysis ■ Vector Overlay Analysis ☐ Cell-based (Raster) Modeling □ Surface Modeling ■ Map Composition/Generation ■ Buffer generation ☐ Raster-Vector Conversion ☐ Line-of-Sight Analysis □ Edgematching ■ Map Joining 29. Image Processing Functionality: □ Interactive Display ☐ Image Enhancement ☐ Geometric Rectification □ Spatial Filtering ☐ Image Mosaicking □ Fourier Analysis □ Radiometric Corrections ☐ Multivariate/Statistical Analysis □ Radar Geocoding & Analysis ☐ Raster GIS Modeling ☐ Hardcopy Map Comp./Anno. ☐ Principal Components Analysis □ Filtering □ Density Slicing

Please describe additional features: not reported

30. Multi-user Capability: ♦ Yes ♦ No
31. Expert system capability: ◊ Yes ♦ No
32. Spatial index supported: ♦ Yes ◊ No
33. Object Oriented Architecture: ♦ Yes ◊ No

☐ Supervised Classification

☐ Unsupervised Classification

PRODUCT NAME: ALK-GIAP as a component of the ALK/ATKINS system

COMPAN	y/Organization		
С	Company Name:	Surveying and Mapping Agency NRW	
	Contact Person(s):	Dipl-Ing. Düren	
S	Street Address:	Muffendorfer Straße 19-21	
С	City, State:	Bonn 53177	
Z	ip, Country:	Germany	
Р	Phone:	049-0228-846-480	
F	ax:	049-0228-846-502	
E	Email:	not reported	
1	I. Type of product:		
'		ssing 🗅 AM/FM 🗅 CAD 🗅 Other:	
LICENSIN	IG/PRICING		
2	2. Is the product public do		
		Please contact AED Graphics GmbH, Mallwitzstr. 1-3, 53177 Bonn	
		User ■ System ■ Site □ Other: tel. 049-0228-95420	
		■ One Time Charge □ Other Charge: <u>fax 049-0228-9542111</u>	
3		ole (bundled hardware & software): ◆ Yes ♦ No	
4	Basic (minimal) software system cost: please contact AED Graphics GmbH		
5	5. Complete (fully capable	e) software system cost: not reported	
USER BA	ASE		
6	6. Total number of license	ed users: 850	
	7. Number of licensed use		
		Asia:	
		Australia:	
		Europe: 850	
		North America:	
		South America:	
8	3. Year of first installation	: <u>1986</u>	
SUPPORT	T/UPDATES		
_	<b></b>	December D Wilders - Transfels D Off	
_	_	Courses □ Videos ■ Tutorials □ Other:	
		able: □ Worldwide □ Not Available ■ Other: <u>Germany</u>	
	• •	luded in License   Other:	
		nnually	
13	R Cost of undates:	cluded in License or Maintenance Contract	

DOCUMENT	TATION/INTERFACE					
14	System documentation availa	blo as: ■ ⊔a	urdeepy ■ El	lactronia Filos		
	Languages available: Arabi		писору <b>■</b> ⊟ □ Bengali		☐ French	
13.	■ Germ		⊒ Hindi	<del>-</del>		
			⊒ Russian	•	☐ Other:	
16	Online help: ■ Basic □ Cont			· ·	d Other	
	User interface:   Command		• •		NIC.	
17.		erated Macros			ius	
	■ Oser-Gen	erated Macros	o 🗖 Other			
TECHNICAL	/FUNCTIONAL					
LCHRICAL	JI UNCTIONAL					
18.	Operating systems supported	I: ■ UNIX/X-W	/indows □ Po	C-DOS/Windows	☐ Windows95	
				tosh ☐ PC-OS/2	□ OS/2 WARP	
			☐ Other:			
	If UNIX/X-Windows, list vendors	and window n	nanagers supp	oorted: DEC, HP,	IBM, SGI, SNI,	
	SUN, MOTIF, Sunview					
	Minimum hardware configurat	tion: Worksta	ation_			
20.	Devices supported:					
		INPUT			OUTPUT	
	■ Digitizers:					
	☐ Frame Grabbers:					
	☐ Scanners:					
	□ GPS:					
	■ CD-ROM:					
	■ Diskette:					
	■ Tape:					
	<ul><li>■ Displays:</li><li>■ Film Recorders:</li></ul>			•		
	■ First Recorders. ■ Electrostatic Plotters:		_			
	■ Pen Plotters:		_			
	■ Ink Jet Printers:			-		
	Laser Printers:		_		<del></del>	
	☐ Others:			·		
21. Sou	rce code available: ♦ Yes:		 ⊒ FORTRAN	· · · · · · · · · · · · · · · · · · ·		
	◆ No					
22. Bato	ch capability: ◊ Yes ♦ No					
	cable libraries for data structure	e access: ♦	Yes: □C □	C++ ■ FORTRA	١N	
				al 🛚 Other:		
		◊	No		<u> </u>	
24. Inte	grated Data Base Management	System: ♦ Ye	es ♦ No			
	a Base File Types Supported:	=		IS □ INFO □ Inte	rgraph	
				dox ☐ Progress	- •	
				/ ATKINS-DBMS, /	AED-IDB	
26. Data	a Exchange Formats Supported	-				

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	☐ Change Map Projections
■ Topographical Structuring	□ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	□ Surface Modeling
■ Map Composition/Generation	□ Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	☐ Image Enhancement
■ Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	□ Principal Components Analysis
☐ Filtering	☐ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ♦ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ◊ Yes ♦ No	
Please describe additional features: Object original	nted data structure. Own object oriented

programming language for data manipulation and presentation.

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PRODUCT NAME: ALLIANCE

COMPANY/ORGANIZATION		
Company Name:		
Contact Person(s):		
Street Address:	=	
City, State:	_	
Zip, Country:		
Phone:		
Fax:		
Email:	not reported	
<ol> <li>Type of product:</li> <li>■ GIS</li> <li>■ Image Product</li> </ol>	ocessing 🗆 AM/FM	□ CAD □ Other:
LICENSING/PRICING		
License fee 3. Turnkey system ava 4. Basic (minimal) soft	Product : User Usystem is: Uone Time Charg ailable (bundled hardv tware system cost: \$	□ Site □ Other: <u>not reported</u> ge □ Other Charge: <u>not reported</u> ware & software): ◆ Yes ◊ No
USER BASE		
6. Total number of lice		
7. Number of licensed	users by continent:	Africa: 20
		Asia:
		Australia:
		Europe: 130
		North America:
9 Voor of first installa	tion: 1002	South America:
8. Year of first installa	tion: <u>1993</u>	South America:
	tion: <u>1993</u>	South America:
8. Year of first installar SUPPORT/UPDATES	tion: <u>1993</u>	South America:
	tion: <u>1993</u>	South America:
SUPPORT/UPDATES		
SUPPORT/UPDATES  9. Training available:	■ Courses □ Videos	s □ Tutorials □ Other:
SUPPORT/UPDATES  9. Training available: 10. Software support av	■ Courses □ Videos vailable: ■ Worldwide	Tutorials  Other:e  Not Available  Other:
SUPPORT/UPDATES  9. Training available: 10. Software support available: 11. Cost of support:	■ Courses □ Videos vailable: ■ Worldwide Included in License □	Tutorials  Other:e  Not Available  Other:

DOCUMENT	TATION/INTERFACE				
11	System documentation available as:	L Hardcopy ■ E	iloetronio Eilos		
	<del>-</del>			■ French	
15.	Languages available: □ Arabic	☐ Bengali	■ English		
	□ German	☐ Hindi	_ 00,000		
40	□ Portuguese	□ Russian	☐ Spanish	☐ Other:	
	Online help: ☐ Basic ☐ Context Sensit				
17.	User interface: ☐ Command Line ■			nus	
	☐ User-Generated Ma	icros 🗆 Other:_			
_					
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported: ☐ UNIX/	'X-Windows ■ F	C-DOS/Windows	■ Windows95	
			ntosh 🗆 PC-OS/2		
	□ VAX/\	/MS □ Other:			
19.	Minimum hardware configuration: PC				
	Devices supported:				
	INP	UT		OUTPUT	
	■ Digitizers:				
	☐ Frame Grabbers:				
	Scanners:				
	■ GPS:				
	CD-ROM:				
	■ Diskette:				
	□ Tape:				
	■ Displays:				
	■ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
	☐ Others:				
21. Sou	rce code available: ◇ Yes: □ C □ C++	☐ FORTRAN	□ Pascal □ Othe	r:	
	♦ No				
22. Bate	ch capability: ◊ Yes ◆ No				
23. Link	cable libraries for data structure access:	♦ Yes: □ C	C++ □ FORTR	۸N	
		□ Pas	cal 🗆 Other:		
		♦ No			
24. Inte	grated Data Base Management System:	♦ Yes ◇ No			
	a Base File Types Supported: ■ dBase		//S □ INFO □ Inte	ergraph	
	**		adox □ Progress	· ·	
		e □ Other:			
26. Data	a Exchange Formats Supported: <u>DXF, N</u>				

27. If GIS Product: ■ Vector ■ Raster

### 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- □ Edgematching

# 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- □ Radiometric Corrections
- Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ♦ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - Buffer generation
- ☐ Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
  - Spatial Filtering
  - □ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - Unsupervised Classification

PRODUCT NAME: APIC

COMPAN	y/Organization				
<u>-</u>					
C	company Name:	APIC S.A.			
	contact Person(s):	Pierre Tarif, Market	ing Director		
	street Address:	Le Baudran, 25, Ru	_		
	City, State:	Arcueil	de de otalingrad		
	lip, Country:		се		
	Phone:	33-1-49-69-90-90			
	ax:	33-1-49-69-92-93			
	mail:				
		•			
1	. Type of product:				
	■ GIS □ Image Process	sing 🗖 AM/FM	□ CAD □ Other:		
LICENSIN	IG/PRICING				
2	2. Is the product public do		al?		
	◆ Commercial Prod				
	<del>-</del>	<del>-</del>	□ Site □ Other:		
		_	e 🗅 Other Charge:		
		-	are & software): ♦ Yes ♦ No		
	4. Basic (minimal) software system cost: \$12,000				
5	5. Complete (fully capable) software system cost: \$25,000				
USER BA	ASE				
6	6. Total number of license	d users: 600			
7	. Number of licensed use	rs by continent:	Africa:		
		•	Asia: 2%		
			Australia:		
			Europe: 95%		
			North America:		
			South America: 3%		
8	<ol><li>Year of first installation:</li></ol>	1984			
SUPPORT	T/UPDATES				
_					
_	<u>-</u>		□ Tutorials □ Other:		
10			□ Not Available □ Other:		
11			Other: Maintenance contract available		
12	•	-	-		
13	<ol> <li>Cost of updates: ■ Incl</li> </ol>	uded in License or N	Maintenance Contract 🚨 Other:		

DOCUMENT	TATION/INTERFACE			
	System documentation available as: ■			
15.		□ Bengali	_	■ French
	☐ German	□ Hindi	•	☐ Mandarin
	□ Portuguese		•	□ Other:_
	Online help: ■ Basic □ Context Sensitiv	• •		
17.	User interface: □ Command Line □ N			IS
	☐ User-Generated Mac	ros 🗆 Other:		
TECHNICAL	/Functional			
18.	Operating systems supported: ■ UNIX/X	Z-Windows □ P	C-DOS/Windows	Windows95
			tosh □ PC-OS/2	
		MS □ Other:		_ 00/
	If UNIX/X-Windows, list vendors and window			HP-HPUX9 /
	DEC-ULTRIX / DEC-OSF1 / SUN-SOLARIS			
19.	Minimum hardware configuration: RAM			
20.				
	INPU	т		ОИТРИТ
	■ Digitizers: All serial port			
	☐ Frame Grabbers:			
	□ Scanners:			
	□ GPS:			
	□ CD-ROM:			
	☐ Diskette:			
	□ Tape:			
	☐ Displays:			
	☐ Film Recorders:			
	■ Electrostatic Plotters:	HF	GL2, Postscript	
	■ Pen Plotters:		HPGL2, Postso	<u>ript</u>
	■ Ink Jet Printers:			
	■ Laser Printers:			
	Others:			
21. Sou	rce code available: ♦ Yes: □ C □ C++ □	JFORTRAN L	Pascal U Other:_	
00 D /	♦ No			
	ch capability: ♦ Yes ♦ No		o = 50575.	
23. Link	able libraries for data structure access:			
			al □ Other:	_
04 leste		♦ No		
	grated Data Base Management System: ♦		P D INEO D Interes	ranh
∠o. Data	a Base File Types Supported: □ dBase □		_	арп
		Oracle □ Parad	•	/ Ingree
26 De4	-		t-Oriented / Informix	/ ingres_
20. Data	a Exchange Formats Supported: EDIGEC	<u> </u>	<u> </u>	

27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	□ Change Map Projections
Topographical Structuring	□ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	□ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
□ Raster-Vector Conversion	■ Line-of-Sight Analysis
Edgematching	■ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	Image Enhancement
Geometric Rectification	Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	

Please describe additional features: <u>Multi-bases access (simultaneous access to several databases by one user).</u>

PRODUCT NAME: ArcCAD

COMPAN	y/Organization				
_					
	Company Name:	ESRI			
	Contact Person(s):	Arun Rajarao			
		380 New York Street			
City, State: Redlands, CA		Redlands, CA			
	ip, Country:	92373, USA			
	Phone:	909-793-2853			
F	ax:	909-793-5953			
E	imail:	Info@esri.com (World Wide Web URL: http://www.esri.com)			
		sing ■ AM/FM ■ CAD □ Other:			
LICENSIN	IG/PRICING				
3	<ul> <li>2. Is the product public domain or commercial? <ul> <li>Commercial Product</li> <li>Licensed by: □ User □ System □ Site □ Other: not reported</li> <li>License fee is: □ One Time Charge □ Other Charge: not reported</li> </ul> </li> <li>3. Turnkey system available (bundled hardware &amp; software): ◊ Yes ◊ No</li> <li>4. Basic (minimal) software system cost: Contact ESRI</li> <li>5. Complete (fully capable) software system cost: Contact ESRI</li> </ul>				
USER BA	ASE				
6	<ol><li>Total number of license</li></ol>	ed users: 10,000 +			
7	7. Number of licensed use	ers by continent: Africa:			
		Asia:			
		Australia:			
		Europe:			
		North America:			
		South America:			
8	3. Year of first installation	: <u>1992</u>			
Support/Updates					
COLLOK	INGI DATES				
9	<del>-</del>	Courses ■ Videos ■ Tutorials □ Other:			
10	). Software support availa	ıble: ■ Worldwide □ Not Available □ Other:			
11	Cost of support: ☐ Included in License ☐ Other: not reported				
12	Software updates: ☐ Annually ☐ Semiannually ☐ Other: not reported				
13	Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: <u>not reported</u>				

DOCUMENT	Documentation/Interface					
14	System documentation available	ilahla sar 🗆 🛚	lardaany 🗇 🗖	lastronia Eilas		
	Languages available:   Ara		Bengali		☐ French	
13.	□ Ge		☐ Hindi	<del>-</del>		
		tuguese		•		
	<b>3</b> 101	tuguese	- Russian	<b>—</b> Оранізн	available through	
					Auto CAD interface.	
16.	6. Online help: ■ Basic □ Context Sensitive □ Hypertext □ N/A					
	17. User interface: ■ Command Line ■ Menus ■ User-Customizable Menus					
	■ User-Generated Macros □ Other:					
TECHNICAL	/Functional					
18.	Operating systems supported					
				ntosh 🗆 PC-OS/2	□ OS/2 WARP	
			IS □ Other:			
19.	<b>. .</b>	ration: <u>4 - 8 N</u>	<u>MB RAM, 40 M</u>	B hard disk		
20.	Devices supported:					
		INPUT			OUTPUT	
	■ Digitizers: manual					
	☐ Frame Grabbers:					
	Scanners:					
	■ GPS:					
	□ CD-ROM:					
	■ Diskette:					
	□ Tape:					
	☐ Displays:					
	■ Film Recorders: ■ Electrostatic Plotters:		-			
	■ Pen Plotters:					
	■ Ink Jet Printers:					
	Laser Printers:		-			
■ Laser Printers:  Others:photogrammetric, COGO, mouse dot matrix printer						
21. Sou	·			=		
21. Source code available: ♦Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other:  ♦ No						
22. Bato	ch capability: ◊ Yes ◊ No					
	able libraries for data structu	ıre access: ◊	Yes: □C □	C++ □ FORTRA	N	
_3. <b>_</b>		3 444400. V		al □ Other:		
			No		<u> </u>	
24. Inte	grated Data Base Manageme					
25. Data Base File Types Supported: ■ dBase ■ Foxbase □ IMS □ INFO □ Intergraph						
-1	A1			ox □ Progress	<del>.</del> .	

☐ Sybase ☐ Other: \_

26. Data Exchange Formats Supported: ARC, DXf, IGES, VPF

27. If GIS Product: ■ Vector □ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	■ Map Joining
29. Image Processing Functionality:	
□ Interactive Display	☐ Image Enhancement
Geometric Rectification	☐ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	☐ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	<ul><li>Density Slicing</li></ul>
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ◊ Yes ♦ No	

Please describe additional features: ArcCAD extends the AutoCAD data model to include complete

GIS Functionality that many CAD users want and need. It fully integrates ARC/INFO functionality within the

AutoCAD environment, presenting powerful GIS tools behind a familiar pull-down menu interface. ArcCAD

supports Intel-based personal computers running DOS or Windows.

PRODUCT NAME: ARC/INFO

Company Name:	COMPANY	COMPANY/ORGANIZATION					
Street Address:	OOMI ANTI	COMPANT/ORGANIZATION					
Street Address:	Co	mpany Name:	ESRI				
Street Address:							
City, State:		* *					
Phone:							
Fax: 909-793-5953 Email:	Zip	<b>Zip, Country</b> : 92373, USA					
Fax: 909-793-5953 Email:	Ph	one:	909-793-2853				
1. Type of product:  GIS							
ELICENSING/PRICING  2. Is the product public domain or commercial?	Em	nail:	info@esri.com (World Wide Web URL: http://www.esri.com)				
2. Is the product public domain or commercial?		■ GIS □ Image Proce	essing ■ AM/FM □ CAD □ Other:				
Commercial Product  Licensed by: ■ User □ System ■ Site □ Other: License fee is: □ One Time Charge □ Other Charge: _not reported  3. Turnkey system available (bundled hardware & software): ◆ Yes ◊ No  4. Basic (minimal) software system cost: _Contact ESRI  5. Complete (fully capable) software system cost: _Contact ESRI   6. Total number of licensed users: _40.000 +	LICENSING	/Pricing					
6. Total number of licensed users:	3. 4. 5.	<ul> <li>Commercial Product         Licensed by: ■ User □ System ■ Site □ Other:         License fee is: □ One Time Charge □ Other Charge: not reported         3. Turnkey system available (bundled hardware &amp; software): ◆ Yes ◊ No     </li> <li>Basic (minimal) software system cost: Contact ESRI</li></ul>					
7. Number of licensed users by continent:  Africa:  Asia:  Australia:  Europe:  North America:  South America:  South America:  10. Software support available:  Worldwide  Not Available  Other:  11. Cost of support:  Included in License  Other:	USER BAS	E					
7. Number of licensed users by continent:  Africa:  Asia:  Australia:  Europe:  North America:  South America:  South America:  10. Software support available:  Worldwide  Not Available  Other:  11. Cost of support:  Included in License  Other:							
Asia:	6.	Total number of licens	sed users: 40,000 +				
Australia:   Europe:   North America:   South America:   Other:   Software support available:   Worldwide   Not Available   Other:   Software support:   Included in License   Other:   not reported   Software updates:   Annually   Semiannually   Other:   Other:   not reported   Software updates:   Included in License or Maintenance Contract   Other:   not reported   Software updates:   Included in License or Maintenance Contract   Other:   not reported   Software updates:   Included in License or Maintenance Contract   Other:   not reported   Software updates:   Included in License or Maintenance Contract   Other:   not reported   Software updates:   Included in License or Maintenance Contract   Other:   not reported   Software updates:   Included in License or Maintenance Contract   Other:   Not reported   Software updates:   Included in License or Maintenance Contract   Other:   Not reported   Software updates:   Included in License   Software updates:   Included   Software updates:   Included   Software updates:   Included   Incl	7.	Number of licensed us	sers by continent: Africa:				
Europe:							
North America: South							
Support/Updates  9. Training available: Courses Videos Tutorials Other:  10. Software support available: Worldwide Not Available Other:  11. Cost of support: Included in License Other:  12. Software updates: Annually Semiannually Other:  13. Cost of updates: Included in License or Maintenance Contract Other:			·				
8. Year of first installation: 1982  SUPPORT/UPDATES  9. Training available: Courses Videos Tutorials Other:  10. Software support available: Worldwide Not Available Other:  11. Cost of support: Included in License Other: not reported  12. Software updates: Annually Semiannually Other:  13. Cost of updates: Included in License or Maintenance Contract Other: not reported							
<ul> <li>9. Training available: ■ Courses ■ Videos ■ Tutorials □ Other:</li> <li>10. Software support available: ■ Worldwide □ Not Available □ Other:</li> <li>11. Cost of support: □ Included in License □ Other:</li> <li>12. Software updates: □ Annually □ Semiannually ■ Other:</li> <li>13. Cost of updates: □ Included in License or Maintenance Contract □ Other:</li> </ul>	8.						
<ul> <li>10. Software support available: ■ Worldwide □ Not Available □ Other:</li> <li>11. Cost of support: □ Included in License □ Other: not reported</li> <li>12. Software updates: □ Annually □ Semiannually ■ Other:</li> <li>13. Cost of updates: □ Included in License or Maintenance Contract □ Other: not reported</li> </ul>	SUPPORT/	Support/Updates					
<ul> <li>10. Software support available: ■ Worldwide □ Not Available □ Other:</li> <li>11. Cost of support: □ Included in License □ Other: not reported</li> <li>12. Software updates: □ Annually □ Semiannually ■ Other:</li> <li>13. Cost of updates: □ Included in License or Maintenance Contract □ Other: not reported</li> </ul>							
<ul> <li>10. Software support available: ■ Worldwide □ Not Available □ Other:</li> <li>11. Cost of support: □ Included in License □ Other: not reported</li> <li>12. Software updates: □ Annually □ Semiannually ■ Other:</li> <li>13. Cost of updates: □ Included in License or Maintenance Contract □ Other: not reported</li> </ul>							
<ul> <li>11. Cost of support: □ Included in License □ Other: not reported</li> <li>12. Software updates: □ Annually □ Semiannually ■ Other:</li> <li>13. Cost of updates: □ Included in License or Maintenance Contract □ Other: not reported</li> </ul>		-					
<ul> <li>12. Software updates: □ Annually □ Semiannually ■ Other:</li> <li>13. Cost of updates: □ Included in License or Maintenance Contract □ Other:not reported</li> </ul>	_						
13. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: not reported							
DOCUMENTATION/INTERFACE							

14.	System documentation a	ivaliable as: L	i Hardcopy 🖵 E	electronic Files	
15.	Languages available: 🗅	Arabic	□ Bengali	□ English	□ French
		German	☐ Hindi	□ Japanese	■ Mandarin
		Portuguese	☐ Russian	□ Spanish	■ Other: <u>Fully</u>
				<u>inte</u>	rnationalized
16.	Online help: ☐ Basic ■	Context Sensit	ive 🛚 Hypertext	□ N/A	
17.	User interface: ■ Com	nmand Line   ■	Menus ■ User	-Customizable Me	nus
	■ Use	r-Generated Ma	cros 🗆 Other:_		
<b>FECHNICA</b>	L/FUNCTIONAL				
18.	Operating systems supp	orted: ■ UNIX/	X-Windows □ F	C-DOS/Windows	□ Windows95
- 3.	,			ntosh □ PC-OS/2	
			/MS □ Other:		
	If UNIX/X-Windows, list ver				neral, DEC, Hewlett-
	Packard, Intel, Silicon Grap				
	·		-		
19.	Minimum hardware confi	guration: 16	- 32 MB RAM, 60	0 MB hard disk	
20.	Devices supported:				
		INP	UT		OUTPUT
	■ Digitizers: manual				
	☐ Frame Grabbers:				
	Scanners:				
	■ GPS:				
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	■ Displays:				
	■ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:		00		
04.0	■ Others: photogrammet			· ·	nter
21. Sot	ırce code available: ♦ Yes	: UC UC++	U FORTRAN I	⊒ Pascai □ Othei	r:
00.5	♦ No				
	ch capability: ♦ Yes ♦ No			0 <b>–</b> 50070	
23. Lin	kable libraries for data stru	icture access:			
				al ■ Other:	
04.1.1	mated Data B		♦ No		
24. Inte	grated Data Base Manage	ment System:	◆ Yes ◇ No		
25 Dat	a Base File Types Support	ed• ■ dRase	□ Foyhase □ IM	S ■ INFO □ Into	rgranh
ZJ. Dal	a base i lie Types Support		□ Foxbase □ livi ■ Oracle □ Parad		ιγιαριι
				lox ப Progress Informix, Ingres, R	Phase SOL 400
		<ul><li>Sybase</li></ul>	u Oulei. <u>DBZ,</u>	miorinix, ingres, R	wast, SQL 400,

26. Data Exchange Formats Supported: Arc, AVHRR, DLG, DXF, ERDAS, IGES, MOSS, TIGER,					
_ASCII,	<u>others</u>				
27. If GIS Product: ■ Vector ■ Raster					
28. GIS Functionality:					
■ Map Digitizing	■ Map Display & Query				
■ Digital Map Editing	■ Change Map Projections				
■ Topographical Structuring	■ Datum Changes				
■ Network Flow Analysis	■ Vector Overlay Analysis				
■ Cell-based (Raster) Modeling	■ Surface Modeling				
■ Map Composition/Generation	■ Buffer generation				
■ Raster-Vector Conversion ■ Line-of-Sight Analysis					
■ Edgematching ■ Map Joining					
29. Image Processing Functionality:					
☐ Interactive Display ☐ Image Enhancement					
Geometric Rectification	□ Spatial Filtering				
■ Image Mosaicking	☐ Fourier Analysis				
Radiometric Corrections	☐ Multivariate/Statistical Analysis				
■ Raster GIS Modeling	□ Radar Geocoding & Analysis				
☐ Hardcopy Map Comp./Anno.	□ Principal Components Analysis				
□ Filtering □ Density Slicing					
☐ Supervised Classification	☐ Unsupervised Classification				
Arc/Info can do all this with ERDAS Imagine.					
30. Multi-user Capability: ♦ Yes ◊ No					

31. Expert system capability: ◆ Yes ◊ No

32. Spatial index supported: ♦ Yes ◊ No

33. Object Oriented Architecture: ◆ Yes ◊ No

Please describe additional features: ARC/INFO, ESRI's flagship software product, is a high-end GIS that consists of a complete geoprocessing toolbox for the automation, modification, management, analysis, and display of geographic information. (ARC/INFO has 8 extensions available: ARC/INFO NETWORK, ARC/INFO TIN, ARC/INFO GRID, ARC/INFO COGO, ArcExpress, ArcPress, ArcScan, ArcStorm.

PRODUCT NAME: PC ARC/INFO

COMPANY	//ORGANIZATION			
Co	ompany Name:	ESRI		
	ontact Person(s):	Arun Rajarao		
	treet Address:	380 New York Street		
	ity, State:	Redlands, CA		
	p, Country:	92373, USA		
	hone:	909-793-2853		
	ax:	909-793-5953		
Er	mail:	Info@esri.com (World Wide Web URL: http://www.esri.com)		
	. Type of product:  ■ GIS □ Image Proces	sing ■ AM/FM □ CAD □ Other:		
LICENSING	g/Pricing			
2.	2. Is the product public domain or commercial?  ◆ Commercial Product  Licensed by: ■ User □ System □ Site □ Other:  License fee is: □ One Time Charge □ Other Charge: not reported			
3.	Turnkey system available (bundled hardware & software): ♦ Yes ◊ No			
4.	. Basic (minimal) softwa	e system cost: Contact ESRI		
5.	. Complete (fully capable	software system cost: Contact ESRI		
USER BAS	SE			
6	. Total number of license	dusars: 15 000 ±		
7.				
	. Humber of nechised use	Asia:		
		Australia:		
		Europe:		
		North America:		
		South America:		
8.	. Year of first installation	: 1987		
Support/Updates				
9.	. Training available: ■ (	Courses ■ Videos ■ Tutorials □ Other:		
10.	. Software support availa	able: ■ Worldwide □ Not Available □ Other:		
11.				
12.	Software updates: □ Annually □ Semiannually □ Other: not reported			
	Cost of updates:   Included in License or Maintenance Contract  Other: not reported			

15. Languages available	e: 🗆 Arabic	□ Bengali	□ English	☐ French
m.gaagee aranaa	□ German	□ Hindi	□ Japanese	☐ Mandarin
	□ Portuguese	☐ Russian	☐ Spanish	■ Other: Fully
				internationalized
16. Online help: ■ Basi	ic ■ Context Sensi	tive Hypertext	□ N/A	
17. User interface: ■	Command Line	Menus ■ User	-Customizable Me	nus
•	User-Generated M	lacros 🛚 Other:_		
_				
HNICAL/FUNCTIONAL				
18. Operating systems				
				/2 □ OS/2 WARP
		X/VMS		
19. Minimum hardware	_	ot reported_		
20. Devices supported			٠	TD. 1 T
	INPU	-	OU	TPUT
■ Digitizers: manua				
☐ Frame Grabbers:_				
Scanners:				
■ GPS:				
□ CD-ROM:				
■ Diskette:				
□ Tape: □ Displays:				
■ Film Recorders:			-	
■ First Recorders. ■ Electrostatic Plotte	aro:			
■ Pen Plotters:	:15.			
■ Ink Jet Printers:				
■ link Jet Printers. ■ Laser Printers:		·		
■ Caser Finiters: ■ Others:			dot matrix prir	nter
1. Source code available:	√ ΛΦε. □ C □ C+1	L D FORTRAN	•	<u> </u>
	♦ No		<b>-</b> 1 40041	·· <del></del>
2. Batch capability: ♦ Yes				
3. Linkable libraries for dat		. ∆ Yes: □C: □	n C++ □ FORTR/	ΔN
o. Ellikable libialies for dat	a structure access		cal □ Other:	
		♦ No	oai d'otrici	
4. Integrated Data Base Ma	nagement System			
5. Data Base File Types Su			MS □ INFO □ Inte	ergraph
o. Data Base i ne Types su		o □ Oracle □ Para		o.g.apii
		se □ Other:	_	

DOCUMENTATION/INTERFACE

28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
Topographical Structuring	■ Datum Changes
□ Network Flow Analysis	■ Vector Overlay Analysis
☐ Cell-based (Raster) Modeling	□ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
■ Raster-Vector Conversion	☐ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	Image Enhancement
Geometric Rectification	<ul> <li>Spatial Filtering</li> </ul>
☐ Image Mosaicking	☐ Fourier Analysis
□ Radiometric Corrections	<ul> <li>Multivariate/Statistical Analysis</li> </ul>
□ Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	<ul> <li>Principal Components Analysis</li> </ul>
☐ Filtering	<ul><li>Density Slicing</li></ul>
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ No	

32. Spatial index supported: ♦ Yes ◊ No33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: PC ARC/INFO provides many of the functions of workstation-based ARC/INFO software in the PC computing environment under either a DOS or Windows operating system.

PRODUCT NAME: ArcView 2.1

Company Name:         ESRI           Contact Person(s):         Arun Rajarao           Street Address:         380 New York Street           City, State:         Redlands, CA           Zip, Country:         92373, USA					
Contact Person(s): Arun Rajarao  Street Address: 380 New York Street  City, State: Redlands, CA					
Street Address: 380 New York Street  City, State: Redlands, CA					
City, State: Redlands, CA					
•					
Zip, Country: 92373, USA					
Phone: 909-793-2853					
Fax:					
Email: Info@esri.com (World Wide Web URL: http://www.esri.com)_					
<ul> <li>Type of product:</li> <li>■ GIS □ Image Processing □ AM/FM □ CAD ■ Other: desktop mapping, GPS, geocoding</li> </ul>					
LICENSING/PRICING					
<ul> <li>2. Is the product public domain or commercial? <ul> <li>Commercial Product</li> <li>Licensed by: ■ User □ System □ Site □ Other:</li> <li>License fee is: □ One Time Charge □ Other Charge:not reported</li> </ul> </li> <li>3. Turnkey system available (bundled hardware &amp; software): ◆ Yes ◊ No</li> <li>4. Basic (minimal) software system cost:Contact ESRI</li> <li>5. Complete (fully capable) software system cost:Contact ESRI</li> </ul>					
User Base					
USER BASE					
6. Total number of licensed users: 65,000 +					
Total number of licensed users: 65,000 +     Number of licensed users by continent: Africa:					
6. Total number of licensed users: 65,000 +					
Total number of licensed users: 65,000 +      Number of licensed users by continent: Africa: Asia:					
Total number of licensed users: 65,000 +      Number of licensed users by continent: Africa:     Asia: Australia:					
<ul> <li>6. Total number of licensed users: 65,000 +</li></ul>					
6. Total number of licensed users:65,000 +  7. Number of licensed users by continent: Africa:					
6. Total number of licensed users:65,000 +  7. Number of licensed users by continent: Africa:					
6. Total number of licensed users: 65,000 +  7. Number of licensed users by continent: Africa:					
6. Total number of licensed users: _65,000 +					
6. Total number of licensed users:65,000 + 7. Number of licensed users by continent: Africa: Asia: Australia: Europe: North America: South America: 8. Year of first installation:1994  SUPPORT/UPDATES  9. Training available: ■ Courses ■ Videos ■ Tutorials □ Other:					

Document	TATION/INTERFACE				
		_			
	System documentation available as:				
15.	g	□ Bengali	■ English	■ French	
	■ German	□ Hindi	■ Japanese		
	■ Portuguese		■ Spanish	■ Other: <u>Danish,</u>	
	Dutch, Hungarian, Polish, Slovak, Swedish	, Finnish, Norwe	gian, Croatian, Slov	enian, Romanian,	
	Greek, Latin, Turkish.	= 11	- N/A		
	Online help: ■ Basic ■ Context Sensitiv				
17.	User interface: ☐ Command Line ☐ Menus ■ User-Customizable Menus				
	■ User-Generated Ma	cros 🗆 Other:_			
_	-				
TECHNICAL	_/FUNCTIONAL				
18.	Operating systems supported: ■ UNIX/	X-Windows ■ F	PC-DOS/Windows	□ Windows95	
	<ul><li>■ Windows/NT</li><li>■ MacIntosh</li><li>■ PC-OS/2</li><li>□ OS/2 WARP</li><li>■ VAX/VMS</li><li>□ Other:</li></ul>				
	If UNIX/X-Windows, list vendors and window managers supported: <u>Data General, DEC, Hewlett-</u>				
	Packard, Silicon Graphics, Sun, NEC, IBM				
19.	Minimum hardware configuration: dep	=	e; Mac: System 7 o	r higher (Power Mac)	
20.			· · · · · · · · · · · · · · · · · · ·		
	INPUT		OUT	PUT	
	■ Digitizers:				
	☐ Frame Grabbers:				
	□ Scanners:				
	■ GPS:				
	□ CD-ROM:				
	☐ Diskette:				
	□ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
	■ Others: mouse			er	
21. Sou	rce code available: ◇ Yes: □ C □ C++	☐ FORTRAN	☐ Pascal ☐ Other:		
	◆ No				
22. Bate	ch capability: ♦ Yes ◇ No				

23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN

25. Data Base File Types Supported: ■ dBase ■ Foxbase □ IMS ■ INFO □ Intergraph

□ Lotus ■ Oracle □ Paradox □ Progress					
■ Sybase ■ Other: <u>Informix, Ingres, DB2, any ODBC-</u>					
	compliant system.				
26. Data Exchange Formats Supported: <u>DXF, D</u>	WG, SDTS, many others				
27. If GIS Product: ■ Vector □ Raster					
28. GIS Functionality:					
■ Map Digitizing	■ Map Display & Query				
■ Digital Map Editing	☐ Change Map Projections				
☐ Topographical Structuring	☐ Datum Changes				
■ Network Flow Analysis	☐ Vector Overlay Analysis				
■ Cell-based (Raster) Modeling	☐ Surface Modeling				
■ Map Composition/Generation	■ Buffer generation				
Raster-Vector Conversion	☐ Line-of-Sight Analysis				
Edgematching	☐ Map Joining				
29. Image Processing Functionality:					
☐ Interactive Display	☐ Image Enhancement				
☐ Geometric Rectification	☐ Spatial Filtering				
☐ Image Mosaicking	☐ Fourier Analysis				
Radiometric Corrections	☐ Multivariate/Statistical Analysis				
Raster GIS Modeling	☐ Radar Geocoding & Analysis				
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis				
☐ Filtering	☐ Density Slicing				
Supervised Classification	Unsupervised Classification				
<b>30. Multi-user Capability: ◆</b> Yes ◊ No					
31. Expert system capability: ◆ Yes ◊ No					
32. Spatial index supported: ♦ Yes ◊ No					
33. Object Oriented Architecture: ♦ Yes ◊ No					
Please describe additional features: _ ArcView so	ftware is an easy-to-learn desktop mapping and GIS				
tool that enables users to quickly select and display different combinations of data and creatively visualize					
information. ArcView has proven to be extremely pop	ular with novice and part-time users of geographic				

information.

PRODUCT NAME: Ascodes-3

COMPANY/	ORGANIZATION						
	mpany Name:	JSInfo					
	ntact Person(s):						
Str	eet Address:	8, rue de la Maisor	n Rouge				
City	y, State:	Lognes					
Zip	, Country:	77185, France					
Pho	one:	33-1-60-17-34-21					
Fax	x:	33-1-60-17-27-58					
Em	nail:	not reported					
	•	essing 🗖 AM/FM	■ CAD □ Other:				
LICENSING	/PRICING						
USER BAS	E						
6.	Total number of licen	sed users: 273					
7.	Number of licensed u	sers by continent:	Africa: 17				
			Asia: 3				
			Australia: 0				
			Europe: 250				
			North America: 1				
			South America: 2				
8.	Year of first installation	on: 1983_					
T							
SUPPORT/U	<b>J</b> PDATES						
_	Tartata a 2 2 1 =	0	D. Todoviala D. Othana				
	_		☐ Tutorials ☐ Other:				
10.							
	Cost of support: ☐ Included in License ☐ Other: <u>Included in maintenance contract</u>						
12.	• • • • • • • • • • • • • • • • • • • •						
13.	Cost of updates: ■ Included in License or Maintenance Contract □ Other:						

UMENTATIO	N/INTERFACE				
14. Svs	stem documentation avail	able as: ■	Hardcopy ■ E	lectronic Files	
=	nguages available: 🗆 Arab		□ Bengali	☐ English	■ French
	□ Gerr		□ Hindi	☐ Japanese	☐ Mandarin
	□ Port	uguese	☐ Russian	■ Spanish	■ Other:
16. Onl	ine help: □ Basic ■ Con	_	e 🗆 Hypertext		
				Customizable Men	us
	■ User-Ge	nerated Mad	ros  Other:		
			_		
CHNICAL/FUN	ICTIONAL				
18. Ope	erating systems supporte	d: ■ UNIX/X	(-Windows □ F	C-DOS/Windows	☐ Windows95
•				itosh □ PC-OS/2	
			MS □ Other:		
If U	NIX/X-Windows, list vendors			<u>-</u>	Vision (Vision Ware)
19. Min	imum hardware configura	ation: 32 M	IB RAM; 1 GB F	ard Disk; 1280 x 10	024 screen resolution.
20. Dev	vices supported:				
		INPUT		OUT	PUT
	Digitizers: Summagraphics:	Aristo			
	rame Grabbers:				
	Scanners: TIFF				
	GPS: ASCII				
	CD-ROM:				
	Diskette:				
	Гаре: <u>cartridges, DAT</u>				
	Displays:				
□ F	Film Recorders:				
<b>■</b> E	Electrostatic Plotters:				
<b>■</b> F	Pen Plotters:			_ HPGL	
<b>I</b>	nk Jet Printers:		_ <u>P</u> (	CL	
<b>■</b> L	_aser Printers:			PCL	
	Others: other graphic printe	ers		-	
21. Source o	code available: 💠 Yes: 🔳	IC □ C++	☐ FORTRAN	□ Pascal □ Other	<u> </u>
	♦ No				
22. Batch ca	pability: ♦ Yes ◊ No				
23. Linkable	libraries for data structu	re access:	♦ Yes: ■ C	C++ □ FORTRA	N
			□ Paso	al 🗆 Other:	
			♦ No		
24. Integrate	ed Data Base Managemen	t System: •	Yes ♦ No		
_	se File Types Supported:	=		S □ INFO □ Interg	graph
			Oracle  Parac	_	•
				5	
		□ Sybase	Other:		

27. If GIS Product: ■ Vector ■ Raster

### 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching

# 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- ☐ Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- □ Filtering
- Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
  - Map Joining
  - □ Image Enhancement
  - Spatial Filtering
  - □ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

Please describe additional features: The unique structure of the database includes geographic (3D and topologic), graphic (vector and raster), and alphanumeric information. Ascodes-3 controls TCP/IP links with external programs or Data Bases. All features, including advanced Cartography/Mapping capabilities (topographic or thematic), and the set of instructions queries (on spatial and alphanumerical attributes), are acceded either directly or via its user language.

PRODUCT NAME: ATLAS GIS

COMPANY/	ORGANIZATION						
	mpany Name:	Scientific Software Susan Hardy	e Group		_		
	Contact Person(s):				_		
Str	eet Address:	11118 Sweetwood	d Lane		_		
City	y, State:	Oakton, VA			_		
Zip	, Country:	22124, USA			_		
Pho	one:	703-620-9214			_		
Fax	<b>«:</b>	703-620-6793			_		
Em	ail:	not reported			_		
1.	Type of product: ■ GIS □ Image Proce	ssing □ AM/FM	□ CAD □ Other:				
LICENSING	Pricing						
2. 3. 4. 5.	4. Basic (minimal) software system cost: US \$500; International \$800						
USER BAS	Ē						
_		_					
	Total number of licens	•					
7.	Number of licensed us	ers by continent:					
			Asia:				
			Australia:				
			Europe:				
			North America:				
•	Vanadinational		South America:				
8.	Year of first installation	1: not reported					
	_						
SUPPORT/U	JPDATES						
•	Taninin a sur Valla =	O	D. Todovick D. Othory				
9.	•		☐ Tutorials ☐ Other:				
10.			e □ Not Available □ Other:				
11.							
12.	·						
13.	3. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: Each upgrade differs						

DOCUMENT	TATION/INTERFACE				
14	System documentation available as:	I Hardcopy □ F	lectronic Files		
	Languages available: ☐ Arabic	□ Bengali	■ English	☐ French	
10.	☐ German	☐ Hindi	· ·		
	□ Portuguese	☐ Russian	☐ Spanish	☐ Other:	
16.	Online help: ☐ Basic ■ Context Sensiti			<u> </u>	
	User interface: □ Command Line ■			IS	
•••	☐ User-Generated Ma				
	_ 333. 331.334.33	.e.ee <u> </u>			
TECHNICAL	/FUNCTIONAL				
ILOIMOAL	JI ONOTIONAL				
18.	Operating systems supported: ☐ UNIX/	'X-Windows ■ P	C-DOS/Windows	■ Windows95	
	☐ Windo	ows/NT 🛚 MacIn	tosh ☐ PC-OS/2	□ OS/2 WARP	
	□ VAX/\	/MS ☐ Other:			
19.	Minimum hardware 386 with 4MB RAM	_			
20.	Devices supported:				
	INP	UT		OUTPUT	
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	☐ GPS:				
	□ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	☐ Electrostatic Plotters:				
	□ Pen Plotters:				
	☐ Ink Jet Printers:				
	Laser Printers:		-		
21 Sau	□ Others: rce code available: ◊ Yes: □ C □ C++				
21. 300	No	<b>J</b> FOR TRAIN	Trascal Tolliel.		
22 Bate	ch capability: ♦ Yes ♦ No				
	circapability. ▼ res → NO kable libraries for data structure access:	^ Voc: □ C □	CII DEODTDAN	ı	
ZJ. LIIII	vable libraries for data structure access.		al □ Other:		
		ب المعادد ♦ No	ar 🗖 Other		
24 Inte	grated Data Base Management System:				
			MS □ INFO □ Inte	raranh	
zs. Dale			adox □ Progress	ηθιαρίι	
			spreadsheet or dBa	ase	
26. Data	a Exchange Formats Supported: <u>not re</u>		Sp. Caac. Tool of abi		

27. If GIS Product: ■ Vector ■ Raster

#### 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- □ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- □ Filtering
- □ Supervised Classification
- 30. Multi-user Capability: ♦ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - □ Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
- ☐ Line-of-Sight Analysis
  - Map Joining
  - ☐ Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

Please describe additional features: Support for up to 250 map layers; built-in database manager links up to 250 tables to any geography; imports data from any dBASE-compatible database or spreadsheet; query support from either the data table or the map; sophisticated spatial analysis including area-weighted data aggregation-multiple buffer creation-combine features and associated data; map presentation tools including bivariate, shaded area, proportional fill or symbol and dot density theme types; 32 data ranges and eight ranging methods; edit titles, legends, scale bars and more on-screen; custom scripting tool using Visual Basic language (optional); extensive color palette and support for all Windows print drivers; friendly Windows interface with Button Bar, Toolbox and Status Bar. ATLAS GIS comes bundled with a large library of base maps, data and page layout templates such as Counties of the World, Capitals of the World, U.S. States, U.S. Interstate Highways, Canadian Provinces, and 3-Digit Zip Codes, among many others.

PRODUCT NAME: CARIS (Computer Aided Resource Information System)

COMPANY/	ORGANIZATION						
_							
	mpany Name:	Universal Systems Ltd.					
	ntact Person(s):	-					
	reet Address:						
	y, State:	Fredericton, NB					
_	o, Country:	E3B 2M2, Canada					
	one:	·					
	x:						
Em	nail:	sales@universal.ca					
1.	Type of product: ■ GIS ■ Image Proce	essing 🗆 AM/FM 🗀 CAD 🗀 Other:					
LICENSING	/PRICING						
3. 4.	4. Basic (minimal) software system cost: \$635 US (CARIS for Windows)						
USER BAS	SE .						
6.	Total number of licens	sed users: <u>2200 +</u>					
7.	Number of licensed us	sers by continent: Africa: 110					
		Asia: 198					
		Australia: 132					
		Europe: 550					
		North America: 990					
		South America: 220					
8.	Year of first installation	n: <u>1982</u>					
Cupper=//	Unnanno						
SUPPORT/	UPDATES						
9.	Training available: ■	Courses □ Videos ■ Tutorials □ Other:					
10.							
11.							
12.	2. Software updates: ☐ Annually ☐ Semiannually ■ Other:						
	3. Cost of updates: ■ Included in License or Maintenance Contract □ Other:						

DOCUMEN	TATION/INTERFACE	
4.4		
	System documentation available as: ■ Hardcopy	
15.	Languages available: ■ Arabic □ Beng	•
	■ German □ Hindi	
40	☐ Portuguese ■ Russ	-
	Online help: ■ Basic □ Context Sensitive □ Hype User interface: ■ Command Line ■ Menus ■	
17.	User-Generated Macros ■ Other	
	■ Oser-Generated Macros ■ Of	Tiel. DDF IIIIK, WS Classes
TECHNICA	L/FUNCTIONAL	
IECHNICA	DI UNCTIONAL	
18.	Operating systems supported: ■ UNIX/X-Window	vs ■ PC-DOS/Windows ■ Windows95
	■ Windows/NT	□ MacIntosh □ PC-OS/2 □ OS/2 WARP
	■ VAX/VMS ■ C	other: NEXT
	If UNIX/X-Windows, list vendors and window manager	- · · · · · · · · · · · · · · · · · · ·
	Silicon Graphics, Data General, 486 PC supporting SC	
19.		
	port for digitizer/plotter, three button mouse; UNIX: 16	MB RAM, 200 MB Diskspace, three button
	mouse, serial ports for digitizers/plotters.	
20.	Devices supported:	
	INPUT	OUTPUT
	■ Digitizers: Includes devices manufactured by	
	Calcomp, Hewlett Packard,	<del></del>
	■ Frame Grabbers: Houston, Versatec,	
	Kongsberg, and Wild	_
	■ Scanners:	
	■ CD-ROM:  Diskette:	<ul> <li>Output formats include HPGL,</li> </ul>
	Biokette.	Postscript, Adobe Illustrator,
	■ Tape:	HPGL2, and Versatec.
	☐ Displays:	
	☐ Film Recorders:	
	■ Electrostatic Plotters:	
	■ Pen Plotters:	<u> </u>
	■ Ink Jet Printers:	
	■ Laser Printers:	
	□ Others:	
21. Sou	urce code available: ◊ Yes: ■ C ■ C++ □ FORTE	
	◆ No	
22. Bat	ch capability: ♦ Yes ◇ No	

23. Linkable libraries for data structure access: ♦ Yes: ■ C ■ C++ □ FORTRAN

	□ Pascal □ Other:						
04.1.4.4.1B.4.B. W40	♦ No						
24. Integrated Data Base Management System: ♦ Yes ♦ No							
	dBase □ Foxbase □ IMS □ INFO □ Intergraph						
	Lotus ■ Oracle □ Paradox □ Progress						
	Sybase ■ Other: <u>Ingres, Informix</u>						
26. Data Exchange Formats Supported:	DXF, DLG, SIF, TIFF, DIGEST, DX90						
27. If GIS Product: ■ Vector ■ Raster							
28. GIS Functionality:							
■ Map Digitizing	■ Map Display & Query						
■ Digital Map Editing	■ Change Map Projections						
■ Topographical Structuring							
■ Network Flow Analysis	■ Vector Overlay Analysis						
■ Cell-based (Raster) Model	ing ■ Surface Modeling						
■ Map Composition/Generat							
■ Raster-Vector Conversion	☐ Line-of-Sight Analysis						
■ Edgematching	■ Map Joining						
29. Image Processing Functionality:							
■ Interactive Display	■ Image Enhancement						
■ Geometric Rectification	■ Spatial Filtering						
■ Image Mosaicking	■ Fourier Analysis						
Radiometric Corrections	☐ Multivariate/Statistical Analysis						
■ Raster GIS Modeling	□ Radar Geocoding & Analysis						
■ Hardcopy Map Comp./Ann	no.						
■ Filtering	□ Density Slicing						
■ Supervised Classification	<ul> <li>Unsupervised Classification</li> </ul>						
<b>30. Multi-user Capability: ◆</b> Yes ◊ No							
31. Expert system capability: ◊ Yes ♦ No							
32. Spatial index supported: ♦ Yes ◊ No							

Please describe additional features: System development libraries, Object oriented toolkit libraries are also available for building extensive applications by the user.

**33. Object Oriented Architecture:** ♦ Yes ◊ No

PRODUCT NAME: CARTOCAD

COMPANY/	ORGANIZATION						
_	NI-	A   O/A					
	mpany Name:	Aerosul S/A					
	ntact Person(s):	Mr. Eloy Allegretti or Mr. A.C. Bogo					
	eet Address:	Av. Brasilia 5547					
	/, State:	Curitiba - Parana					
=	, Country:	81020-010, Brazil					
	one:	041-346-3553					
	::	041-246-2015					
Em	ail:	None					
1.	Type of product: ☐ GIS ☐ Image Proces	sing □ AM/FM ■ CAD □ Other:					
LICENSING	PRICING						
3. 4. 5.	4. Basic (minimal) software system cost: US \$3,500						
USER BASI	1						
	Total number of license						
7.	Number of licensed use	•					
		Asia: Australia:					
		Europe:					
		North America:					
		South America: 250					
8.	Year of first installation						
•		· <u>······</u>					
SUPPORT/I	Support/Updates						
JULI POR I/C	A DAILS						
9.	Training available:   C	Courses □ Videos □ Tutorials ■ Other: <u>direct training</u>					
10.	<del>-</del>	able: □ Worldwide ■ Not Available □ Other:					
11.							
12.	Software updates: ■ Annually □ Semiannually □ Other:						
	. Cost of updates: ☐ Included in License or Maintenance Contract ■ Other: 50% off						

DOCUMEN	TATION/INTERFACE				
4.4					
	System documentation available	le as: ■ ⊦			
15.	Languages available: ☐ Arabic		□ Bengali	□ English	☐ French
	☐ Germai		☐ Hindi	☐ Japanese	☐ Mandarin
	· ·	uese		☐ Spanish	☐ Other:
	Online help:   Basic   Contex				
17.					ius
	☐ User-Gener	rated Macro	os 🛘 Other:		
TECHNICAL	L/FUNCTIONAL				
18	Operating systems supported:		X-\Windows ■	PC-DOS/Mindows	s D Windows95
10.	Operating systems supported.			Intosh DPC-OS/	
			MS □ Other:_		2 <b>3</b> 00/2 WAR
19.	Minimum hardware 486 DX2, 6		IVIO 🖪 Other		
	Devices supported:	JOIVII IZ.			
20.	Devices supported.	INPUT		OUT	PUT
	■ Digitizara: All	_		001	FUI
	<ul><li>■ Digitizers: All</li><li>□ Frame Grabbers:</li></ul>			۸۱۱ ۵	lotters
	■ Scanners: All				lable In
	■ GPS: All				Market
	■ CD-ROM: All			THE	Market
	■ Diskette: All				
	■ Tape: All				
	■ Pape. All  Displays:				
	■ Film Recorders:				
	■ Electrostatic Plotters:				
	Pen Plotters:				
	■ Ink Jet Printers:		All		
	Laser Printers:				
	☐ Others:				
21. Sou	ırce code available: ◊ Yes: ☐ C	□ C++ □	FORTRAN	□ Pascal □ Other	··
	◆ No				
22. Bat	ch capability: ♦ Yes ♦ No				
	kable libraries for data structure a	access:	Yes: ■C □	ıC++ □ FORTRA	۸N
-			□ Pasc	al 🛘 Other:	
		<	> No		
24. Inte	grated Data Base Management S	system: ♦	Yes ♦ No		
	a Base File Types Supported:	-		MS □ INFO □ Int	ergraph
_5 4.				adox □ Progress	- <del>3</del>
			☐ Other: Clip	_	
26. Dat	a Exchange Formats Supported:	=	· ·	<del></del>	

71

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- □ Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- □ Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- ☐ Image Mosaicking
- Radiometric Corrections
- ☐ Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ♦ Yes ♦ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ♦ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: Not reported

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - □ Vector Overlay Analysis
  - □ Surface Modeling
  - □ Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- □ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - □ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

PRODUCT NAME: Cartographic add-on to Arc/Info

COMPANY/	ORGANIZATION				
•	mmomy Nower	Cookinton Cl. I	ol Cornoration		
	mpany Name: ntact Person(s):	GeoSystems Glob  Jim Hilliard	al Corporation		
	eet Address:		t.		
		Lancaster, PA	L.		
	y, State:	17604, USA		<del></del>	
_	o, Country: one:	717-393-9707		<del></del>	
		717-393-9707		<del></del>	
	x: nail:	Not reported		<del></del>	
LIII	iaii.	Not reported		<del></del>	
1.	Type of product: ■ GIS □ Image Proce	ssing □ AM/FM	□ CAD □ Other:		
LICENSING	/PRICING				
3. 4. 5.	License fee is: Turnkey system availa Basic (minimal) softwa Complete (fully capabl	■ One Time Charg ble (bundled hardv re system cost:v			
USER BAS	E				
6.	Total number of licens	` <del></del>			
7.	Number of licensed us	ers by continent:	Africa:		
			Asia:		
			Australia:		
			Europe: North America:1		
			South America:		
8.	Year of first installation	n: 1995_			
SUPPORT/	<b>J</b> PDATES				
_			= = =		
9.	_		☐ Tutorials ■ Other: <u>custom</u>		
10.			e □ Not Available ■ Other: <u>custom</u>		
11.	Cost of support: ☐ Inc				
12.	<del>-</del>		nually ■ Other: <u>variable</u>		
13.	3. Cost of updates: ■ Included in License or Maintenance Contract □ Other:				

DOCUMEN.	TATION/INTERFACE			
44	System desumentation sysilables	as = Hardeany □	Flactronia Filos	
	System documentation available a			5 <b>.</b>
15.	<b>.</b> .	□ Bengali	· ·	☐ French
	☐ German	□ Hindi	☐ Japanese	☐ Mandarin
	☐ Portugues		•	☐ Other:
	Online help: ■ Basic □ Context S			
17.	User interface: ☐ Command Lin	e ■ Menus □ Use	r-Customizable Men	us
	☐ User-Generate	ed Macros   Other:		
TECHNICAL	L/Functional			
40	On anoting a system a symmetric d.	• LINUV/V M/Sedeme	D DO DOCANia da una	□ Windows05
18.	Operating systems supported:			
		I Windows/NT □ Ma		2 U 05/2 WARP
		VAX/VMS Other		/lofe accompanted LINITY
	If UNIX/X-Windows, list vendors and	window managers su	рропеа: <u>ЕSRI Arc</u>	rinto supported UNIX
40	platforms.	-1-1'0 OOMD DAM	A /l- f ft	
	Minimum hardware SUN SPARC	station2, 32MB RAM,	Arc/into software.	
20.	Devices supported:			
		NPUT	ООТ	PUT
	Digitizers: As supported by Arc/Ir			
	Frame Grabbers: As supported b	-		
	Scanners: As supported by Arc/I	nfo		
	■ GPS: As supported by Arc/Info			
	■ CD-ROM: As supported by Arc/li			
	■ Diskette: As supported by Arc/Inf	0		
	■ Tape: As supported by Arc/Info			
	Displays:		As supported I	-
	Film Recorders:	·	s supported by Arc/	
	■ Electrostatic Plotters:	<u></u>	As supported by Arc/	
	■ Pen Plotters:	_	As supported I	
	Ink Jet Printers:		As supported by Arc/	
	Laser Printers:		As supported I	oy Arc/Into
	□ Others:			
21. Sou	rce code available: ♦ Yes: ■ C	IC++ UFORTRAN	☐ Pascal ■ Other	: <u>AML</u>
	♦ No			
	ch capability: ♦ Yes ♦ No	_		
23. Lini	kable libraries for data structure acc			
			scal 🗆 Other:	
		♦ No		
24. Inte	grated Data Base Management Sys	tem: ♦ Yes ◇ No		

25. Data Base File Types Supported:

26. Data Exchange Formats Supported: As supported by Arc/Info

□ Lotus ■ Oracle □ Paradox □ Progress□ Sybase ■ Other: As supported by Arc/Info

□ dBase □ Foxbase □ IMS ■ INFO □ Intergraph

27. If GIS Product: ■ Vector ⊔ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
☐ Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
■ Raster-Vector Conversion	☐ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
☐ Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	☐ Principal Components Analysis
☐ Filtering	☐ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ◊ Yes ♦ No	

Please describe additional features: Our add-on AML product to Arc/Info provides a set of cartographic tools and techniques for the production of high quality cartographic output.

PRODUCT NAME: COGO/CEAL

COMPANY/	ORGANIZATION						
	mpany Name:	CLM/Systems, Inc.					
	ntact Person(s):						
	eet Address:						
	y, State:	Tampa, FL					
Zip	o, Country:	33609, USA					
Pho	one:	813-286-8755					
Fax	x:	813-286-8993					
Em	nail:	clmceal@aol.com					
1.	Type of product: ■ GIS □ Image Proces	ssing □ AM/FM □ CAD ■ Other: <u>Surveying Infrastructure Design</u>					
LICENSING	/PRICING						
2. 3. 4. 5.	Commercial Product     Licensed by: ■ User ■ System ■ Site □ Other: License fee is: ■ One Time Charge □ Other Charge:  3. Turnkey system available (bundled hardware & software): ◆ Yes ◊ No  4. Basic (minimal) software system cost:contact source						
USER BAS	SE .						
_	Total number of license						
7.	Number of licensed use	•					
		Asia:					
		Australia:					
		Europe: North America: <u> 5000 +</u>					
		South America:					
Q	Year of first installation						
0.	rear or mot motanation	I. <u>1300</u>					
Cupper=//	llan . ==o						
SUPPORT/U	UPDATES						
9	Training available: ■ (	Courses U Videos U Tutorials U Other:					
	J	able: ■ Worldwide □ Not Available □ Other:					
		cluded in License   Other: contact source					
		Annually  Semiannually  Other:					
		cluded in License or Maintenance Contract  Other:					
	and a superior and the	oragos in Election of Maintenance Contract — Other.					

DOCUMENT	TATION/INTERFACE				
4.4				=	
	System documentation availa				
15.	Languages available:   Arabi		□ Bengali	■ English	□ French
	□ Germ		☐ Hindi		☐ Mandarin
	□ Portu	guese	☐ Russian	□ Spanish	☐ Other:
16.	Online help: ■ Basic ■ Conte	ext Sensitive	■ Hypertext	□ N/A	
17.	User interface: ■ Command	d Line ■ Me	enus <b>I</b> User-	Customizable Menu	ıs
	■ User-Gen	erated Macro	os  Other:	<u>Graphics</u>	
TECHNICAL	/Functional				
10	Operating systems supported	• 🗀 HNIIV/V	/ Windows	PC DOS/Mindows	■ Windows05
10.	Operating systems supported			ntosh ■ PC-OS/2	
					OS/2 WARP
40	Minimum banduran andimum		MS ☐ Other:_		
19.	<b>3</b>	ion: Intel 48	86, 16 MB RAN	1, 500 MB DISK	
20.	Devices supported:				
		INPUT		OUTI	201
	Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	■ GPS: files				
	☐ CD-ROM:				
	■ Diskette:				
	□ Tape:				
	□ Displays:				
	☐ Film Recorders:				
	■ Electrostatic Plotters:			ZEROX	
	■ Pen Plotters:			HP0	<u>G</u>
	■ Ink Jet Printers:			<u>HP</u>	
	■ Laser Printers:			<u>HP</u>	
	☐ Others:				
21. Sou	rce code available: ♦ Yes: 🗅	C 🗆 C++ 🗆	FORTRAN	□ Pascal □ Other:	
	♦ No				
22. Bate	ch capability: ♦ Yes ◊ No				
23. Link	kable libraries for data structure	access: ◊	Yes: □C □	C++ □ FORTRAN	1
			□ Pasc	al 🗆 Other:	
			No	<u> </u>	<del>-</del>
24. Inte	grated Data Base Management				
	a Base File Types Supported:	-		MS ■ INFO ■ Inte	ergraph
_J. Date				adox □ Progress	.a.~k.,
			Other:	-	
26 Date	a Exchange Formats Supported				
		1. DAF, DUI	VI		
21. IT G	IS Product: ■ Vector □ Raster				

28. GIS Functionality:

■ Map Digitizing ■ Map Display & Query ■ Digital Map Editing ☐ Change Map Projections ■ Topographical Structuring ■ Datum Changes □ Network Flow Analysis ■ Vector Overlay Analysis □ Cell-based (Raster) Modeling ■ Surface Modeling □ Buffer generation ■ Map Composition/Generation ☐ Raster-Vector Conversion ■ Line-of-Sight Analysis □ Edgematching ■ Map Joining 29. Image Processing Functionality: ■ Interactive Display ☐ Image Enhancement ■ Geometric Rectification ■ Spatial Filtering ☐ Fourier Analysis ☐ Image Mosaicking □ Radiometric Corrections ☐ Multivariate/Statistical Analysis ☐ Raster GIS Modeling □ Radar Geocoding & Analysis ■ Hardcopy Map Comp./Anno. ☐ Principal Components Analysis ■ Filtering □ Density Slicing ☐ Supervised Classification ☐ Unsupervised Classification 30. Multi-user Capability: ◆ Yes ◊ No 31. Expert system capability: ◆ Yes ◊ No 32. Spatial index supported: ♦ Yes ◊ No

Please describe additional features: contact company

33. Object Oriented Architecture: ◊ Yes ◊ No

PRODUCT NAME: CRISP

COMPANY/	ORGANIZATION	
	ntact Person(s): Tomas Milaknis	
	y, State: Vilnius	
	, Country: 2001, Lithuania	
	one: 3702-226-572	
	K: 3702-226-928	
Em	ail: not reported	
1.	Type of product: ■ GIS □ Image Processing □ AM/FM	□ CAD □ Other:
LICENSING	/Pricing	
3. 4.	License fee is: ■ One Time Char Turnkey system available (bundled hard	□ Site □ Other: ge □ Other Charge: ware & software): ◊ Yes ◆ No \$900 US dollars_
USER BAS	E	
6.	Total number of licensed users: 56	
	Number of licensed users by continent:	Africa:
	•	Asia:
		Australia:
		Europe: 56
		North America:
		South America:
8.	Year of first installation: 1992	
Support/U	IDDATES	
SUPPORTA	JPDATES	
9.	Training available: ■ Courses □ Videos	s 🗆 Tutorials 🗅 Other:
10.	Software support available: ■ Worldwide	e □ Not Available □ Other:
11.	Cost of support: ☐ Included in License	■ Other: 15% per ann
12.	Software updates: ■ Annually □ Semiar	nnually 🗅 Other:
13	Cost of updates: ■ Included in License of	r Maintenance Contract □ Other:

DOCUMEN	I A HON/INTERFACE			
14	System documentation available	e as: ■ Hardcony ■ F	lectronic Files	
	Languages available:   Arabic	e as. ■ Hardcopy ■ L □ Bengali	■ English	☐ French
13.	☐ German	•	J	
			<ul><li>Japanese</li><li>Spanish</li></ul>	
40	_			■ Other: <u>Lithuanian</u>
	Online help:   Basic Contex			
17.	User interface:   Command I			nus
	☐ User-Gener	ated Macros   Other:		
	<i>i</i> =			
TECHNICAL	L/FUNCTIONAL			
18.	Operating systems supported:	□ UNIX/X-Windows ■	PC-DOS/Window	s ■ Windows95
		□ Windows/NT □ Mad	Intosh PC-OS/	2 □ OS/2 WARP
		□ VAX/VMS □ Other:_		
19.	Minimum hardware configuration	n: 486, RAM 4 MB, VG	<u>A_</u>	
20.	Devices supported: All Win	dows supported		
		INPUT		OUTPUT
	■ Digitizers: <u>ALTEK, SUMMAGR</u>	APHICS, CALCOMP		
	☐ Frame Grabbers:			
	□ Scanners:			
	☐ GPS:			
	■ CD-ROM:			
	■ Diskette:			
	■ Tape:			
	■ Displays:			
	☐ Film Recorders:			
	☐ Electrostatic Plotters:			
	■ Pen Plotters:			
	■ Ink Jet Printers:			
	■ Laser Printers:			
	■ Others:			
21. Sou	ırce code available: ◇ Yes: □ C	□ C++ □ FORTRAN	□ Pascal □ Othe	r:
	♦ No			
22. Bat	ch capability: ◊ Yes ♦ No			
	kable libraries for data structure a	access: ◊ Yes: □ C □	C++ □FORTRA	N
			cal 🗆 Other:	
		♦ No		
24. Inte	grated Data Base Management S			
	-	■ dBase □ Foxbase □ l	IMS □ INFO □ Int	ergraph
_5. Dat	• • • • • • • • • • • • • • • • • • • •	☐ Lotus ☐ Oracle ☐ Pai		
		□ Svbase □ Other:		

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26. Data Exchange Formats Supported: DXF, TXT

27. If GIS Product: ■ Vector □ Raster

28. GIS Functionality:

■ Map Digitizing ■ Map Display & Query ■ Digital Map Editing ☐ Change Map Projections ■ Topographical Structuring □ Datum Changes □ Network Flow Analysis ■ Vector Overlay Analysis □ Cell-based (Raster) Modeling □ Surface Modeling ■ Buffer generation ■ Map Composition/Generation ☐ Line-of-Sight Analysis □ Raster-Vector Conversion ■ Edgematching ■ Map Joining 29. Image Processing Functionality: ☐ Interactive Display ☐ Image Enhancement ☐ Geometric Rectification □ Spatial Filtering ☐ Image Mosaicking □ Fourier Analysis □ Radiometric Corrections ☐ Multivariate/Statistical Analysis ☐ Raster GIS Modeling □ Radar Geocoding & Analysis ☐ Hardcopy Map Comp./Anno. ☐ Principal Components Analysis □ Filtering □ Density Slicing ☐ Supervised Classification ☐ Unsupervised Classification 30. Multi-user Capability: ♦ Yes ♦ No 31. Expert system capability: ♦ Yes ♦ No

Please describe additional features: not reported.

32. Spatial index supported: ◊ Yes ◆ No33. Object Oriented Architecture: ◊ Yes ◆ No

PRODUCT NAME: Data-on-the-Map 3.0

COMPANY/ORGANIZATION			
Company Name	Chewayarite AD		
Company Name:			_
Contact Person(s): Street Address:	-		_
City, State:			_
Zip, Country:			_
Phone:			_
Fax:			_
Email:		se	_
1. Type of produc ■ GIS □ Imag		□ CAD □ Other:	
LICENSING/PRICING			
◆ Commer License License 3. Turnkey syster 4. Basic (minimal	e fee is: ■ One Time Charg	■ Site □ Other: ge □ Other Charge: ware & software): ◊ Yes ◊ No US \$795_	
USER BASE			
	of licensed users: 100	***	
7. Number of lice	nsed users by continent:		
		Asia: Australia:	
		Europe: 100	
		North America:	
		South America:	
8. Year of first ins	stallation: 1995		
SUPPORT/UPDATES			
<del>-</del>		s ■ Tutorials □ Other:	
		e D Not Available D Other:	
		□ Other:	
		nnually 🗖 Other:	
13. Cost of update	s: 🗅 Included in License or	r Maintenance Contract ■ Other:	

DOCUMEN	I A I I O WINT EN I A O E			
14.	System documentation available	le as: ■ Hardcop	/ □ Flectronic Files	
	Languages available: ☐ Arabic		gali ■ English	☐ French
	□ Germa	•	•	
		uese 🗀 Russ	•	
16.	Online help: ☐ Basic ■ Contex		•	
	User interface: □ Command			nus
			Other:	
TECHNICAL	L/FUNCTIONAL			
18.	Operating systems supported:	□ UNIX/X-Windo	ws ■ PC-DOS/Window	vs. □ Windows95
	3 3, 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		□ MacIntosh □ PC-OS	
		□ VAX/VMS □ (	Other:	
19.	Minimum hardware configuration	n: not reported		
	Devices supported:	·		
	••	INPUT		ОИТРИТ
	■ Digitizers: All Windows 3.x cor	npatible devices	<u></u>	
	☐ Frame Grabbers:	•		
	■ Scanners: All Windows 3.x co			
	■ GPS: Generic format used by	Γrimble. Easy to	<u> </u>	
	adapt to other ASCII f	ormats.		
	☐ CD-ROM:			
	☐ Diskette:			
	☐ Tape:		<u>—</u>	
	☐ Displays:			
	☐ Film Recorders:			
	☐ Electrostatic Plotters:			
	☐ Pen Plotters:			
	■ Ink Jet Printers:			3.x compatible devices
	Laser Printers:		_ <u>A</u>	Il Windows 3.x compatible devices
04.0	□ Others:			
21. Sot	urce code available: ♦ Yes: ☐ C	UC++ UFORT	RAN 🗆 Pascal 🗀 Otne	9r:
22 Pat	♦ No			
	ch capability: ♦ Yes ♦ No	A V [	3.C = C D.FODTD	ANI
23. Lini	kable libraries for data structure			
			☐ Pascal ☐ Other: ☐	
Od lot-	parated Data Base Management C	♦ No	Jo	
	egrated Data Base Management S a Base File Types Supported:	-		storgraph
zs. Dat	а вазе гне турез эпрропей:		ise IMS INFO Ir	
		Lotus U Oracle	□ Paradox □ Progress	

83

☐ Sybase ☐ Other: MS Access

26. Data Exchange Formats Supported: DXF (lines)

27. If GIS Product: ■ Vector □ Raster

28. GIS Functionality:						
	■ Map Digitizing					
	■ Digital Map Editing					
	■ Topographical Structuring					
	□ Network Flow Analysis					
	☐ Cell-based (Raster) Modeling					
	☐ Map Composition/Generation					

- □ Raster-Vector Conversion□ Edgematching
- ☐ Interactive Display☐ Geometric Rectification☐ Image Mosaicking
- □ Radiometric Corrections□ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering

29. Image Processing Functionality:

- ☐ Supervised Classification
- 30. Multi-user Capability: ◊ Yes ♦ No
  31. Expert system capability: ◊ Yes ♦ No
  32. Spatial index supported: ♦ Yes ◊ No
  33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- □ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

Please describe additional features: Raster can be used as layers and as background for digitizing/
updating vector maps. We also provide the run-time version DM-MapServer SDK free of charge. The DMMapServer is used for designing tailored applications, including real-time GPS or geo-archive applications
(searching/updating information about sites, plants, subsidiaries, artifacts, etc.).

PRODUCT NAME: Dimple

COMPANY/ORGANIZATION	
Company Name:	
Contact Person(s):	
Street Address:	744 San Antonio Road, Suite 27A
City, State:	Palo Alto, CA
Zip, Country:	94303, USA
Phone:	415-852-0720
Fax:	415-852-0723
Email:	not reported
<ol> <li>Type of product:</li> <li>GIS ■ Image Pro</li> </ol>	ocessing
LICENSING/PRICING	
◆ Commercial F Licensed by License fee i 3. Turnkey system ava 4. Basic (minimal) soft	c domain or commercial?  Product  : ■ User □ System □ Site □ Other:
USER BASE	
O Tatal wombon of the	mand warms. N/A
6. Total number of lice	
7. Number of licensed	•
	Asia: Australia:
	Europe:
	North America: South America:
8. Year of first installat	
SUPPORT/UPDATES	
-	
9. Training available:	□ Courses □ Videos ■ Tutorials □ Other:
10. Software support av	vailable: ■ Worldwide □ Not Available □ Other:
11. Cost of support: ■	Included in License
12. Software updates: □	☐ Annually ■ Semiannually ☐ Other:
40 0 4 4 14 5	Included in License or Maintenance Contract ■ Other:

DOCUMENT	TATION/INTERFACE						
4.4			- FI	=			
	System documentation available						
15.	Languages available: ☐ Arabic	□ E - ·	•	■ English	☐ French		
	☐ Germar			☐ Japanese			
	<del>-</del>			☐ Spanish	☐ Other:		
	Online help: ☐ Basic ☐ Context						
17.	User interface: ☐ Command Line ☐ Menus ☐ User-Customizable Menus						
	☐ User-Genera	ated Macros	→ Other:				
TECHNICAL	/Functional						
18	Operating systems supported:	□ UNIX/X-Wii	ndows □ P(	C-DOS/Windows	□ Windows95		
	operating systems supported.			osh □ PC-OS/2			
		□ VAX/VMS			2 00/2 W/III		
19.	Minimum hardware configuratio				drive. System 6.05		
	or later, 4 MB RAM.	· · · · · · · · · · · · · · · · · · ·			<del></del>		
20.	Devices supported:						
	эт э	INPUT			ОИТРИТ		
	☐ Digitizers:						
	☐ Frame Grabbers:						
	□ Scanners:						
	□ GPS:						
	□ CD-ROM:						
	☐ Diskette:						
	□ Tape:						
	☐ Displays:						
	☐ Film Recorders:						
	□ Electrostatic Plotters:						
	☐ Pen Plotters:						
	☐ Ink Jet Printers:						
	■ Laser Printers:						
	☐ Others:						
21. Sou	rce code available: ♦ Yes: ☐ C	□ C++ □ FO	DRTRAN □	Pascal 🛚 Other:_			
	◆ No						
22. Bato	ch capability: ♦ Yes ◆ No						
23. Link	cable libraries for data structure a	access: ♦ Yes	s: 🗆 C 🗆 C	++ □ FORTRAN			
			□ Pascal	■ Other: IOL			
		♦ No					
24. Inte	grated Data Base Management S	ystem: ◊ Yes	◆ No				
25. Data	a Base File Types Supported:	□ dBase □ Fo	oxbase 🗆 IMS	S 🗆 INFO 🗅 Inter	graph		
		□ Lotus □ Ora	acle 🛚 Parad	lox □ Progress			

☐ Sybase ☐ Other:\_\_\_\_\_

26. Data Exchange Formats Supported: not reported

27. If GIS Product: ☐ Vector ☐ Raster

28. GIS Functionality:	
Map Digitizing	☐ Map Display & Query
Digital Map Editing	Change Map Projections
Topographical Structuring	Datum Changes
Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	Surface Modeling
Map Composition/Generation	Buffer generation
Raster-Vector Conversion	Line-of-Sight Analysis
Edgematching	□ Map Joining
29. Image Processing Functionality:	
Interactive Display	Image Enhancement
Geometric Rectification	□ Spatial Filtering
Image Mosaicking	Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ◊ Yes ◊ No	
32. Spatial index supported: ♦ Yes ◊ No	

33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: \_DIMPLE is an interactive image processing system for the earth sciences. Complete with a range of images and multispectral analysis tools, including classifications, image registration, and rectification. Ideal for people working with remotely sensed images on the Mac. Now available for the Power Mac which runs up to 10/15 times faster than on 68K Macs. Please call for a free demo.

PRODUCT NAME: DM-MapServer SDK

COMPANY/	ORGANIZATION			
Co	mpany Name:	ChartWrite AB		
Co	ntact Person(s):	Dr. B. Gyllstroem		
Str	eet Address:	Ideon		
City	y, State:	223 70 Lund		
Zip	, Country:	Sweden		
Pho	one:	046-46-168930		
Fax	x:	046-46-129879		
Em	nail:	info@chartwrite.se		
1.	Type of product: ■ GIS □ Image Proces	sing □ AM/FM	□ CAD ■ Other: <u>DLL/OEM</u>	
LICENSING	/Pricing			
	License fee is: Turnkey system availab	luct User □ System □ One Time Chargo le (bundled hardw	■ Site □ Other: De □ Other Charge: No license fee Vare & software): ◇ Yes ◇ No	
5.	Complete (fully capable	-		
USER BAS	E			
6.	Total number of license	d users: 50		
7.	Number of licensed use	ers by continent:	Africa:	
		•	Asia:	
			Australia:	
			Europe: 50	
			North America:	
			South America:	
8.	Year of first installation	1995		
SUPPORT/U	JPDATES			
9.	Training available: 🗆 🤇	Courses 🗆 Videos	☐ Tutorials ☐ Other:	
10.	Software support availa	ıble: ■ Worldwide	Not Available ☐ Other:	
11.	Cost of support:   Incl	uded in License	Other: If required, based on individual agreements	
12.	Software updates: ■ A	nnually 🛭 Semianr	nually 🗅 Other:	
13.	Cost of updates: ☐ Inc	luded in License or	Maintenance Contract ■ Other:	

14	System documentation available	nle as: □ H	ardcony ■ F	lectronic Files	
	Languages available:   Arabic		ardcopy <b>■</b> ∟ □ Bengali		☐ French
13.	□ Germa		☐ Hindi	•	☐ Mandarin
		guese		<ul><li>□ Japanese</li><li>□ Spanish</li></ul>	☐ Other:
16	Online help: ☐ Basic ☐ Conte	-		-	d Other
17.	•				200
17.			s □ Other:		ius
	USer-Gene	erateu Macro	is 🗖 Other		
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported:	: UNIX/X-	Windows <b>■</b> F	PC-DOS/Windows	☐ Windows95
		□ Windows	s/NT 🛚 MacIr	ntosh 🗆 PC-OS/2	□ OS/2 WARP
		□ VAX/VM	S □ Other:		
19.	Minimum hardware configurat	ion: same a	as for Data-on-	the-Map 3.0, 386,	33Mhz_
20.	Devices supported:				
		INPUT			OUTPUT
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	☐ GPS:				
	☐ CD-ROM:				
	☐ Diskette:				
	□ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	□ Electrostatic Plotters:				
	□ Pen Plotters:				<u> </u>
	Ink Jet Printers:				
	☐ Laser Printers:				
	☐ Others:				
21. Sou	rce code available: ◆ Yes: □ 0	C □ C++ □	FORTRAN	□ Pascal ■ Othe	
					available in Visual
					Basic and C++ code.
	♦ No				
	ch capability: ◊ Yes ◆ No		_		
23. Link	cable libraries for data structure	access: ◆			
				al 🗆 Other:	<u> </u>
			No		
	grated Data Base Management	=			
25. Data	a Base File Types Supported:			MS □ INFO □ Int	ergraph
				adox ☐ Progress	
		□ Sybase			
26. Data	a Exchange Formats Supported	: Imports m	ap data in *.stf	-format (Data-on-t	<u>he-Map 3.0)</u>

DOCUMENTATION/INTERFACE

27. If GIS Product: ■ Vector □ Raster	
28. GIS Functionality:	
☐ Map Digitizing	☐ Map Display & Query
☐ Digital Map Editing	☐ Change Map Projections
Topographical Structuring	□ Datum Changes
□ Network Flow Analysis	□ Vector Overlay Analysis
Cell-based (Raster) Modeling	☐ Surface Modeling
Map Composition/Generation	□ Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
□ Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	☐ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	☐ Principal Components Analysis
☐ Filtering	☐ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	
Places describe additional features 201	have a law was law as (* at tame 0. The co
Please describe additional features: Raster can	
design applications in any environment which can ca	all our DLL, for example Visual Basic or C++. The DM-

MapServer SDK is the run-time version of Data-on-the-Map 3.0.

PRODUCT NAME: DRAGON/ips (Academic Edition & Professional Suite)

COMPANY/	ORGANIZATION	
Co	mpany Name:G	oldin-Rudahl Systms, Inc.
		oldin-Rudani Systms, Inc. r. Sally E. Goldin
	• •	University Drive #213
		mherst, MA
		1059, USA
	•	12.052.7040
		13-253-7340 13-549-6401
	-	086210@mcimail.com
EII	idii	1002 TO @ Miciman.com
1.	Type of product: ☐ GIS ■ Image Processin	g □ AM/FM □ CAD □ Other:
LICENSING	/Pricing	
2. 3. 4. 5.	License fee is: ■ © Turnkey system available Basic (minimal) software s	
USER BAS	E	
6.	Total number of licensed t	users: 500 (seats - most installations are at university labs so will have more users than seats)
7.	Number of licensed users	
		Asia: 200 estimated
		Australia: 50 estimated
		Europe: 150 estimated
		North America: 50 estimated
		South America: 25 estimated
8.	Year of first installation:	
SUPPORT/	JPDATES	
9. 10. 11.	Software support available	rses □ Videos ■ Tutorials □ Other:e: ■ Worldwide □ Not Available □ Other:eed in License □ Other:

	For Professional Suite			<u>update</u>
UMEN	TATION/INTERFACE			
4.4	System decumentation sysilable sec	rdoony D. Ele	ostronio Filos	
	System documentation available as: ■ Ha			D Franch
15.		⊒ Bengali	■ English □ Japanese	☐ French
		⊒ Hindi ⊒ Bussian		
	☐ Portuguese	⊒ Russian	■ Spanish	•
46	Online helm: D. Bosia  Contact Consisting	□ Llunomtout I	¬ N/A	Czech_
	Online help: ☐ Basic ☐ Context Sensitive ☐			
17.	User interface: ■ Command Line ■ Mer			
	■ User-Generated Macros	■ Other: II	nteractive Respor	nse Paneis
HNICAI	L/FUNCTIONAL			
	☐ Windows/	NT □ MacIn	tosh 🗆 PC-OS/2	2 □ OS/2 WARP
	□ VAX/VMS  Minimum hardware configuration: For DOS  or SVGA display - mouse and math coprocesses	G □ Other: S Version: 286	or better compu	
	□ VAX/VMS  Minimum hardware configuration: For DOS  or SVGA display - mouse and math coprocessor  Devices supported:	G □ Other: S Version: 286	or better compu	iter, 2 MB RAM, VGA
	□ VAX/VMS  Minimum hardware configuration: For DOS  or SVGA display - mouse and math coprocesse  Devices supported:  INPUT	Other: S Version: 286 or recommend	or better compu	
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers:	S □ Other: S Version: 286 or recommend	or better compu	iter, 2 MB RAM, VGA
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocess  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers:	Other: S Version: 286 or recommend	or better compu	iter, 2 MB RAM, VGA
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series	Other: S Version: 286 or recommend	or better compu	iter, 2 MB RAM, VGA
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS:	Other: S Version: 286 or recommend	or better compu	iter, 2 MB RAM, VGA
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocess  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any	Other: S Version: 286 or recommend	or better compuled.	output
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any	S □ Other: S Version: 286 or recommend	or better compuled.	oter, 2 MB RAM, VGA  OUTPUT
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocessor Devices supported:  INPUT  □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfate.	S □ Other: S Version: 286 or recommend	or better compuled.  Second	output  ame ame
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any	S □ Other: S Version: 286 or recommend	or better compuled.  Secondary Secon	output  ame also TIGA, TARGA,
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interface □ Displays:	S □ Other: S Version: 286 or recommend	s or better compuled.  Signature Sig	ame also TIGA, TARGA, GA etc.
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interface □ Displays: □ Film Recorders:	S □ Other: S Version: 286 or recommend	or better compuled.  Signature Signa	output  ame also TIGA, TARGA,
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfate □ Displays: □ Film Recorders: □ Electrostatic Plotters:	S □ Other: S Version: 286 or recommend	or better compuled.  Signature Signa	ame also TIGA, TARGA, GA etc.
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfation □ Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters:	S □ Other: S Version: 286 or recommend	or better compuled.  Signature Signa	output  ame also TIGA, TARGA, GA etc. A or PCX files)
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfate □ Displays: □ Film Recorders: □ Electrostatic Plotters:	S □ Other: S Version: 286 or recommend	Sor better compuled.  Solve Signature Signatur	output  ame ame also TIGA, TARGA, GA etc. A or PCX files)
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfate □ Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Ink Jet	S □ Other: S Version: 286 or recommend	Sor better computed.  Signature Sign	output  ame also TIGA, TARGA, GA etc. A or PCX files)  t printers anon Bubblejet series
	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfation Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Laser Printers: □ Pen Plotters: □ Laser Printers: □ Pen Plotters: □ Laser Printers: □ Laser Printers: □ Pen Plotters:	S □ Other: S Version: 286 or recommend	or better compuled.  Signature Signa	output  ame also TIGA, TARGA, GA etc. A or PCX files)  t printers anon Bubblejet series ostScript, also HP Laserjet
20.	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfation □ Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Cothers: □ Others:	S □ Other: S Version: 286 or recommend	Sor better compuled.  Signature Sign	output  output  ame also TIGA, TARGA, GA etc. A or PCX files)  t printers anon Bubblejet series ostScript, also HP Laserjet olor PostScript support
20.	□ VAX/VMS  Minimum hardware configuration: For DOS or SVGA display - mouse and math coprocesse  Devices supported:  INPUT □ Digitizers: □ Frame Grabbers: □ Scanners: HP Scanjet Series □ GPS: □ CD-ROM: Any □ Diskette: Any □ Tape: Any device with an ASPI SCSI interfation Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Laser Printers: □ Pen Plotters: □ Laser Printers: □ Pen Plotters: □ Laser Printers: □ Laser Printers: □ Pen Plotters:	S □ Other: S Version: 286 or recommend	Sor better compuled.  Signature Sign	output  output  ame also TIGA, TARGA, GA etc. A or PCX files)  t printers anon Bubblejet series ostScript, also HP Laserjet olor PostScript support

	□ Pascal □ Other:				
	♦ No				
24. Integrated Data Base Management System: ♦ Yes ♦ No					
25. Data Base File Types Supported:	□ dBase □ Foxbase □ IMS □ INFO □ Intergraph				
	☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress				
	☐ Sybase ☐ Other:				
26. Data Exchange Formats Supported:	many_				
27. If GIS Product: ☐ Vector ☐ Raster					
28. GIS Functionality:					
☐ Map Digitizing	☐ Map Display & Query				
Digital Map Editing	Change Map Projections				
Topographical Structuri	ing				
☐ Network Flow Analysis	Vector Overlay Analysis				
☐ Cell-based (Raster) Mo	deling				
Map Composition/General	eration				
Raster-Vector Conversi	on				
Edgematching	☐ Map Joining				
29. Image Processing Functionality:					
■ Interactive Display	■ Image Enhancement				
■ Geometric Rectification	■ Spatial Filtering				
■ Image Mosaicking	☐ Fourier Analysis				
■ Radiometric Corrections	s □ Multivariate/Statistical Analysis				
■ Raster GIS Modeling	☐ Radar Geocoding & Analysis				
■ Hardcopy Map Comp.//	Anno. ■ Principal Components Analysis				
■ Filtering	■ Density Slicing				
■ Supervised Classification	n ■ Unsupervised Classification				
<b>30. Multi-user Capability:</b> ♦ Yes ♦ No					
31. Expert system capability: ♦ Yes ♦ No					
32. Spatial index supported: ◊ Yes ♦ No					

Please describe additional features: Provides full, 24-bit color display. Starting in January '96, all purchasers will receive both MS DOS and Windows versions. Designed for R/S - GIS education. Highly interactive, clearly structured, extensive help, comprehensive documentation. Designed for internationalization. Supports unicode (ISO 10646) standard for representing world-wide character sets.

33. Object Oriented Architecture: ◊ Yes ♦ No

PRODUCT NAME: Eagle Point GIS Software (FMS)

COMPANY	ORGANIZATION		
•	manager Name -	Faula Daint Coffinger	
	mpany Name: ntact Person(s):	Eagle Point Software  John Biver or David Hawkins	<del></del>
	reet Address:		
		5.1	
	y, State:	• •	
=	o, Country: one:		
	x:		<del></del>
	nail:		
	iaii	strakab@netins.com	
1.	Type of product: ■ GIS □ Image Pro	cessing □ AM/FM ■ CAD □ Other:	
LICENSING	/PRICING		
3. 4. 5.	License fee i Turnkey system ava Basic (minimal) soft Complete (fully capa	□ User □ System □ Site ■ Other: Situational s: □ One Time Charge ■ Other Charge: Situational ilable (bundled hardware & software): ◇ Yes ◆ No ware system cost: not reported	
6.	Total number of lice	nsed users: 20,000 +	
7.			
		Asia:	
		Australia:	
		Europe:	
		North America:	
		South America:	
8.	Year of first installat	ion: <u>1983</u>	
SUPPORT/	UPDATES		
_			
9.	_	Courses □ Videos ■ Tutorials □ Other:	
10.		ailable: ■ Worldwide □ Not Available □ Other:	
11.		Included in License ■ Other: <u>Situational</u>	
12.		Annually  Other:	
13.	Cost of updates:	Included in License or Maintenance Contract ■ Other: Situat	<u>ional</u>

14.	System documentation availa	able as: ■ ⊦	Hardcopy ■ E	Electronic Files	
	Languages available:  Arab		□ Bengali		■ French
	■ Gern		☐ Hindi	<del>-</del>	☐ Mandarin
	☐ Portu	uguese	□ Russian	■ Spanish	■ Other: <u>Italian</u>
16.	Online help: ☐ Basic ☐ Conf	_		· ·	
17.	User interface: ■ Comman	nd Line ■ M	enus 🗆 User	-Customizable Men	us
	☐ User-Ger	nerated Macro	os 🛚 Other:_		
ECHNICAI	L/FUNCTIONAL				
18	Operating systems supported	d. ■ HNIY/Y	-Windows ■	PC-DOS/Mindows	■ Windows95
10.	operating dystems supported			ntosh ☐ PC-OS/2	
					<b>3</b> 00/2 W/(()
19.	Minimum hardware configura				. 500 MB hard drive:
	Recommend 486/66 or higher (		•	CCCCCI, LOWID TO NO	, coo mo nara anvo,
20	Devices supported:	<u> </u>	1 (7 (17)		
20.	Devices supported.	INPUT			OUTPUT
	■ Digitizers:	_			001101
	■ Frame Grabbers:				
	Scanners:				
	GPS:				
	■ CD-ROM:				
	■ Diskette:				
	☐ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
	☐ Others:				
21. Sou	ırce code available: ♦ Yes: 🗖	C 🗆 C++ 🗓	⊒ FORTRAN	□ Pascal □ Other	<u>:</u>
	◆ No				
22. Bat	<b>ch capability: ♦</b> Yes ◊ No				
	kable libraries for data structur	e access:	Yes: □ C ■	■C++ □FORTRA	N
				cal □ Other:	
		<	No		
24. Inte	grated Data Base Managemen				
	a Base File Types Supported:	•		IMS □ INFO □ Inte	ergraph
	=			radox □ Progress	3
			■ Other: Info	_	
26. Dat	a Exchange Formats Supporte				
	IS Product: ■ Vector □ Raster				

DOCUMENTATION/INTERFACE

28. GIS Functionality:

☐ Map Digitizing	■ Map Display & Query
Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	Vector Overlay Analysis
☐ Cell-based (Raster) Modeling	Surface Modeling
□ Map Composition/Generation	■ Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	■ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ No	
32. Spatial index supported: ♦ Yes ♦ No	
33. Object Oriented Architecture: ◊ Yes ◊ No	

Please describe additional features: not reported.

PRODUCT NAME: EASI/PACE

COMPAN	NY/ORGANIZATION		
(	Company Name:	PCI	
	Contact Person(s):	Mr. Mike Pastushak	
8	Street Address:	50 West Wilmot Street	
C	City, State:	Richmond Hill, Ontario	
Z	Zip, Country:	L4B IMB, Canada	
F	Phone:	905-764-0614	
F	Fax:	905-764-9604	
E	Email:	pastushak@pci.on.ca	
	<ol> <li>Type of product:</li> <li>■ GIS ■ Image Proces</li> </ol>	sing □ AM/FM □ CAD ■ Other: <u>Remote Sensing</u>	
LICENSIN	NG/PRICING		
:	License fee is: I 3. Turnkey system availab 4. Basic (minimal) softwar		
USER B	ASE		
		d uppers 2 000	
	6. Total number of license		
,	7. Number of licensed use	rs by continent: Africa: 100  Asia: 300	
		Asia. 300 Australia: 100	
		Europe: 400	
		North America: 900	
		South America: 200	
:	8. Year of first installation:		
SUPPOR	T/UPDATES		
9	<ol><li>9. Training available: ■ C</li></ol>	ourses 🗆 Videos 🗅 Tutorials 🗅 Other:	
10	0. Software support availa	ble: ■ Worldwide □ Not Available □ Other:	
11	1. Cost of support:  Incl	uded in License ■ Other:	
12	2. Software updates: ■ Ar	nually 🗆 Semiannually 🗅 Other:	
1:	Cost of updates: ■ Included in License or Maintenance Contract □ Other:		

14	System documentation availal	h <b>le as: ■</b> Hai	rdcony 🗆 E	lectronic Files	
	Languages available:   Arabi		Bengali		■ French
	□ Germ		⊒ Bengan ⊒ Hindi	-	☐ Mandarin
				☐ Spanish	☐ Other:
16	Online help: ■ Basic ■ Conte	_		·	d Other.
17.	•			-Customizable Men	LIC.
17.		erated Macros			us
	■ User-Gen	erateu Macros	☐ Other		
ECHNICAI	L/FUNCTIONAL				
18	Operating systems supported	• ■ I INIX/X-\\\	/indows ■ F	PC-DOS/Windows	■ Windows95
10.	operating systems supported			ntosh ■ PC-OS/2	
				110311 -1 0-00/2	_ 30/2 W/W
	If UNIX/X-Windows, list vendors		·	<u> </u>	. HP. DEC. IBM. Data
	General.	and mildon III	a.iagoio oup		, DEG, IDIN, Data
19	Minimum hardware configurat	ion: 500 MR	disk 16 MR	RAM	
	Devices supported:	.ion: <u>500 MB</u>	disk, TO MD	TO divi	
20.	Devices supported.	INPUT			OUTPUT
	■ Digitizaro	_			001701
	■ Digitizers:				
	☐ Frame Grabbers:				
	Scanners:				
	■ GPS: ■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	<ul><li>■ Displays:</li><li>□ Film Recorders:</li></ul>			-	
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	■ Ink Jet Printers:			<del></del>	
	■ Laser Printers:				
21 Sou	☐ Others: urce code available: ◆ Yes: ☐	C	EODTDAN	—————————————————————————————————————	
2 000	♦ No	0 _ 0		_	<u> </u>
22 Bate	ch capability: ♦ Yes ♦ No				
			/oo: □ C ■	C. FCODEDAN	1
23. Lini	kable libraries for data structure	e access: •			
				al 🗆 Other:	<del>_</del>
04.1		۸ ◊			
	grated Data Base Management	=			
25. Dat	a Base File Types Supported:			IMS □ INFO □ Inte	ergraph
				radox ☐ Progress	
		□ Sybase □			
26. Data	a Exchange Formats Supported	I: 45 raster ar	nd vector form	<u>nats</u>	

DOCUMENTATION/INTERFACE

27. If GIS Product: ■ Vector ■ Raster

## 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- □ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ◊ Yes ♦ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

- ☐ Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: Neural Network Classification, Satellite and Airborne Orthophoto generation and DEM extraction, real-time 3-D image fly-through.

PRODUCT NAME: EPPL7 GIS

COMPANY/	ORGANIZATION					
_						
	mpany Name:					
	ntact Person(s):					
	eet Address:					
	/, State:					
-	, Country:					
	one:					
	(:					
Ema	ail:	epp17@lmic.state.mn.us				
1.	Type of product: ■ GIS □ Image Product	ocessing				
LICENSING/	PRICING					
2. 3. 4. 5.	Commercial Product      Licensed by: □ User □ System ■ Site □ Other:      License fee is: ■ One Time Charge □ Other Charge:  3. Turnkey system available (bundled hardware & software): ◊ Yes ◆ No  4. Basic (minimal) software system cost: \$500 or less					
USER BASE	Ē					
6.	Total number of lice	nsed users: 2,387				
7.	Number of licensed	users by continent: Africa: 1				
		Asia: <u>37</u>				
		Australia: 77				
		Europe: <u>35</u>				
		North America: 2237				
		South America: 0				
8.	Year of first installati	ion: <u>1975</u>				
SUPPORT/U	JPDATES					
9.	Training available:	■ Courses □ Videos ■ Tutorials ■ Other: <u>on site</u>				
10.	_	railable: ■ Worldwide □ Not Available □ Other:				
		Included in License ■ Other: \$75 / year				
12.		 I Annually □ Semiannually ■ Other: <u>as developed</u>				
13.		Included in License or Maintenance Contract ■ Other: \$125 max / copy				

DOCUMEN	I A HON/IN I ERFACE			
1.1	System documentation availab	Jo as: ■ Hardson	, ■ Flootropic Files	
	-			D. Franck
15.	Languages available: ☐ Arabio	``	gali ■ English	
	□ Germa		<u>=</u>	☐ Mandarin
			sian 🗆 Spanish	☐ Other:
	Online help: ☐ Basic ■ Conte			
17.	User interface: ■ Command			nus
	☐ User-Gene	erated Macros 🛭 C	Other:	
TECHNICAL	/FUNCTIONAL			
40			<b>-</b> DO DOGAA!'	¬ \\".   05
18.	Operating systems supported:			
			I MacIntosh □ PC-OS/2	U OS/2 WARP
			ther:	
	Minimum hardware configurati	on: <u>80286, VGA n</u>	nonitor, 2 MB RAM, 40 M	B hard disk
20.	Devices supported:			
		INPUT		OUTPUT
	■ Digitizers: most supported		<u> </u>	
	☐ Frame Grabbers:			
	☐ Scanners:			
	GPS: reads ASCII files			
	■ CD-ROM: files direct from CD	)		
	■ Diskette: sold on 3.5 disks on	ly	<u> </u>	
	□ Tape:		<u> </u>	
	■ Displays:		VESA driver	compatible
	☐ Film Recorders:			
	☐ Electrostatic Plotters:			
	☐ Pen Plotters:			
	■ Ink Jet Printers:		HP Deskjet S	eries, HP Paintjets
			Ca	annon, Epson
	■ Laser Printers:		_ <u>P(</u>	CL language compatible
	☐ Others:		<u> </u>	
21. Sou	ırce code available: 💠 Yes: 🗖 C	C □ C++ □ FORT	RAN □ Pascal □ Othe	r:
	♦ No			
22. Bate	ch capability: ♦ Yes ♦ No			
23. Link	kable libraries for data structure	access: ♦ Yes: I	■C □C++ □FORTRA	N
			■ Pascal □ Other:	
		♦ No		<del></del>
24. Inte	grated Data Base Management S		No	
	a Base File Types Supported:	-	ise □ IMS □ INFO □ In	tergraph
20. Date	a 200 i no Typos cupported.		□ Paradox □ Progress	
		□ Sybase □ Othe		

26. Data Exchange Formats Supported: DXF, TIFF, ERDAS, TARGA

27. If GIS Product: ☐ Vector ■ Raster

28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	□ Change Map Projections
Topographical Structuring	□ Datum Changes
Network Flow Analysis	□ Vector Overlay Analysis
■ Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
■ Raster-Vector Conversion	■ Line-of-Sight Analysis
Edgematching	■ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	☐ Image Enhancement
Geometric Rectification	■ Spatial Filtering
■ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	□ Multivariate/Statistical Analysis
■ Raster GIS Modeling	□ Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	□ Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◊ Yes ♦ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ◊ Yes ♦ No	
33. Object Oriented Architecture: ◊ Yes ♦ No	

Please describe additional features: Special discounts for Academic, student, and non-profit groups.

Discounted site licenses available also.

PRODUCT NAME: ER Mapper

COMPANY/	ORGANIZATION					
Co	mpany Name:	Earth Resource M	1apping			
Co	ntact Person(s):	Andrew Nickerson	1			
Str	eet Address:	4370 La Jolla Villa	ge Drive			
Cit	y, State:	San Diego, CA				
Zip	o, Country:	92122-1253, USA	\			
Ph	one:	619-558-4709				
Fax	x:	619-558-2657				
Em	nail:	queries@ermusa.	com			
1.	Type of product: ☐ GIS ■ Image Proces	ssing 🛭 AM/FM	□ CAD □ Other:			
LICENSING	/PRICING					
2. 3. 4. 5.	Commercial Product     Licensed by: □ User ■ System □ Site □ Other: License fee is: ■ One Time Charge □ Other Charge:  3. Turnkey system available (bundled hardware & software): ◊ Yes ◆ No  4. Basic (minimal) software system cost: not reported					
USER BAS	E					
6.	Total number of license	ed users: over 300	0_			
7.	Number of licensed use	ers by continent:	Africa: 5%			
			Asia: 25%			
			Australia: 10%			
			Europe: 25%			
			North America: 25%			
			South America: 10%			
8.	Year of first installation	: <u>1990</u>				
SUPPORT/	UPDATES					
•	Toololo o avallable = 7	N	■ Totarials □ Others			
9.	=		■ Tutorials □ Other:			
10.			Not Available Other:			
	Cost of support:  Inc		•			
12.		-	nually Other:			
13.	Cost of updates: U Inc	iuaea in License or	Maintenance Contract ■ Other: <u>separate fee</u>			

	Languages available: ☐ Arabic	□ Bengali	■ English	☐ French	
	☐ German	☐ Hindi	☐ Japanese	■ Mandarin	
	□ Portuguese	□ Russian	□ Spanish	□ Other:	
16.	Online help: ☐ Basic ☐ Context Sensiti	ve 🛚 Hypertext	□ N/A		
17.	User interface: ☐ Command Line ■	Menus ■ User	-Customizable Men	us	
	User-Generated Ma	acros  Other:	mainly driven by too	olbars_	
ICAL	FUNCTIONAL				
40	Operation excitance comparted.	//V Windows D	DC DOC/Mindows	D Windows 05	
10.	Operating systems supported: UNIX		Intosh PC-OS/2		
		lows/N1 □ Mac VMS □ Other:		U USIZ WARP	
	If UNIX/X-Windows, list vendors and windows	<del>-</del>		s Sun/OS	
	IBM RS6000, Silicon Graphics, DEC Alpha		•	o, odi // oo,	
19.	·			AM. 600 MB free	
. • .	Minimum hardware configuration: PC: 486/33 (Intel compatible), 16 MB RAM, 600 MB free hard disk, 8 bit graphics, CDROM drive, mouse, WindowsNT/95; Sun: Sparc5, GX graphics, Solaris				
	2.3, 600 MB hard disk space, CDROM driv		•	• .	
	IRIX 5.2, 600 MB free disk space, CDROM drive; HP: HP 9000-735, 8 bit display, 32 MB RAM, HP-				
	UX 9.01, 600 MB free disk space, CDRON		•	-	
	OSF/1 v1.3, 600 MB free disk space, CDR	•	·		
20.	Devices supported:				
				OUTPUT	
	INPUT			001101	
	INPUT  ■ Digitizers: limited only to file format			0011 01	
				3011 01	
	■ Digitizers: limited only to file format			001101	
	■ Digitizers: limited only to file format  □ Frame Grabbers:				
	<ul> <li>■ Digitizers: limited only to file format</li> <li>□ Frame Grabbers: Scanners: limited only to file format</li> </ul>				
	<ul> <li>■ Digitizers: limited only to file format</li> <li>□ Frame Grabbers: Scanners: limited only to file format</li> <li>■ GPS: limited only to file format</li> </ul>				
	<ul> <li>■ Digitizers: limited only to file format</li> <li>□ Frame Grabbers:</li> <li>■ Scanners: limited only to file format</li> <li>■ GPS: limited only to file format</li> <li>□ CD-ROM:</li> <li>□ Diskette:</li> <li>□ Tape:</li> </ul>				
	■ Digitizers: limited only to file format  □ Frame Grabbers: ■ Scanners: limited only to file format ■ GPS: limited only to file format □ CD-ROM: □ Diskette:				
	<ul> <li>■ Digitizers: limited only to file format</li> <li>□ Frame Grabbers:</li></ul>				
	<ul> <li>■ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>		* *	er 240 harcopy	
	<ul> <li>□ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>		* *		
	<ul> <li>■ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>		* *	er 240 harcopy	
	<ul> <li>■ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>		* *	er 240 harcopy	
	<ul> <li>■ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>			er 240 harcopy put devices	
	<ul> <li>■ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>			er 240 harcopy put devices	
	<ul> <li>■ Digitizers: _limited only to file format</li> <li>□ Frame Grabbers:</li></ul>			er 240 harcopy put devices	

DOCUMENTATION/INTERFACE

	☐ Pascal ☐ Other:
	♦ No
24. Integrated Data Base Management S	system: ♦ Yes ◇ No
25. Data Base File Types Supported:	■ dBase □ Foxbase □ IMS ■ INFO ■ Intergraph
	□ Lotus ■ Oracle □ Paradox □ Progress
	□ Sybase □ Other:
-	over 150 file formats supported (tiff, .dxf, ascii etc.)
27. If GIS Product: ☐ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuri	ng ■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
■ Cell-based (Raster) Mod	deling ■ Surface Modeling
■ Map Composition/Gene	eration ■ Buffer generation
■ Raster-Vector Conversion	on ■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	■ Image Enhancement
■ Geometric Rectification	■ Spatial Filtering
■ Image Mosaicking	■ Fourier Analysis
■ Radiometric Corrections	■ Multivariate/Statistical Analysis
■ Raster GIS Modeling	■ Radar Geocoding & Analysis
■ Hardcopy Map Comp./A	Anno. ■ Principal Components Analysis
■ Filtering	■ Density Slicing
■ Supervised Classificatio	n Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ♦ Yes ◊ No	

**32. Spatial index supported:** ♦ Yes ♦ No **33. Object Oriented Architecture:** ♦ Yes ♦ No

Please describe additional features: ER Mapper is raster based image processing and map composition tool. We realize the need to integrate GIS and image processing and so have added quite a bit of GIS functionality, but by no means are we a GIS. We have strong use in the mineral exploration, oil & gas, and defense communities and are gaining momentum in many other applications as well. The product is a powerful yet easy to use image processing and map composition tool. Earth Resource Mapping prides itself on customer service and satisfaction. We are committed to open standards. The list of import/export formats, hardcopy devices, and functionality is continually updated to help make ER Mapper the easiest, most powerful, and most cost effective solution for the end users map production and image processing needs.

## PRODUCT NAME: ERDAS IMAGINE

Сомра	NY/ORGANIZATION					
	Company Name:	ERDAS, Inc.				
	Contact Person(s):	Stanley E. Quinn				
	Street Address:	2801 Buford Highway N.E., Ste 300				
	City, State:	Atlanta, GA				
	Zip, Country:	30329-2137, USA				
	Phone:	404-248-9000				
	Fax:	404-248-9400				
	Email:	quinn@erdas.com				
	<ol> <li>Type of product:</li> <li>■ GIS</li> <li>■ Image Proces</li> </ol>	ssing 🛘 AM/FM 🗘 CAD 🗘 Other:				
LICENS	ING/PRICING					
	<ol> <li>Is the product public domain or commercial?</li></ol>					
USER E	BASE					
	6. Total number of license	-durana, 40,000 .				
	7. Number of licensed use	<del> </del>				
	7. Number of ficensed us	Asia: 1500				
		Australia: 200				
		Europe: 2100				
		North America: 5400				
		South America: 500				
	8. Year of first installation	: <u>1981</u>				
Suppo	RT/UPDATES					
	9. Training available: ■ (	Courses □ Videos ■ Tutorials □ Other:				
•	10. Software support avail	able: ■ Worldwide □ Not Available □ Other:				
•	11. Cost of support:  Inc	luded in License ■ Other: contact local distributor				
•	<ol><li>Software updates: ■ A</li></ol>	nnually 🛘 Semiannually 🗘 Other:				
	13. Cost of updates: ■ Inc	cluded in License or Maintenance Contract				

DOCUMEN	TATION/INTERFACE				
14	System documentation available as: ■	Hardcopy ■ F	lectronic Files		
	Languages available: ☐ Arabic	□ Bengali	■ English	☐ French	
13.	□ German	☐ Hindi	<ul><li>■ Lingiisii</li><li>□ Japanese</li></ul>	☐ Mandarin	
	☐ Portuguese	☐ Russian	☐ Spanish	☐ Other:	
16	Online help: ☐ Basic ☐ Context Sensitiv		· ·	G Other	
	User interface: □ Command Line ■			uie	
17.	■ User-Generated Ma			lus	
	- Oser-Generated wa	cros d Other			
TECHNICAL	L/FUNCTIONAL				
IECHNICA	LIFUNCTIONAL				
18.	Operating systems supported: ■ UNIX	/X-Windows 🗆 I	PC-DOS/Windows	■ Windows95	
	■ Wind	ows/NT 🚨 MacI	ntosh ☐ PC-OS/2	□ OS/2 WARP	
		VMS □ Other:_			
	If UNIX/X-Windows, list vendors and windo		ported: contact E	RDAS_	
	Minimum hardware configuration: con	tact ERDAS			
20.	Devices supported:				
	INPUT			OUTPUT	
	■ Digitizers: contact ERDAS				
	■ Frame Grabbers: contact ERDAS				
	■ Scanners: contact ERDAS				
	■ GPS: contact ERDAS				
	■ CD-ROM: contact ERDAS				
	■ Diskette: contact ERDAS			contact ERDAS	
	■ Tape: contact ERDAS			contact ERDAS	
	■ Displays:		•	act ERDAS	
	Film Recorders:		·	act ERDAS	
	■ Electrostatic Plotters:		cont	act ERDAS	
	Pen Plotters:		<del></del>	contact ERDAS	
	Ink Jet Printers:		cont	act ERDAS	
	Laser Printers:			contact ERDAS	
21 Sou	■ Others:urce code available: ◇ Yes: □ C □ C++	□ F∩PTP∧N		contact ERDAS	
21. 000	♦ No	a rokinan	a rascar a other	•	
22 Bat	ch capability: ♦ Yes ♦ No				
	kable libraries for data structure access:	<b>▲</b> Vas: ■ C ■	I C++ □ F∩RTR∆I	N	
23. LIII	Rable libraries for data structure access.		al □ Other:		
		♦ No	ai 🗖 Other		
24 Inte	egrated Data Base Management System:				
			IMS □ INFO □ Int	ergraph	
23. Dat			radox □ Progress	o. g. ap. i	
		se ■ Other: <u>AS</u>	-		
	⊒ Oyba	<u> </u>	<del>~ · · ·</del>		

26. Data Exchange Formats Supported: many, contact ERDAS

27. If GIS Product: ■ Vector □ Raster

## 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ◊ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: contact ERDAS

PRODUCT NAME: Express Document Retrieval System

COMPANY/ORGANIZATION	
Company Name: Scanning Ameri	ca, Inc.
Contact Person(s): Tim Hunsinger	
	husetts St.
-	
Phone: 913-749-7471	
Fax: 913-749-7213	
Email: info@scanamer	ica.com
<ul><li>1. Type of product:</li><li>□ GIS ■ Image Processing □ AM/FM</li></ul>	■ CAD □ Other:
LICENSING/PRICING	
	n ■ Site □ Other: urge □ Other Charge: dware & software): ◆ Yes ◊ No \$995_
USER BASE	
6. Total number of licensed users: N/A	
7. Number of licensed users by continent	: Africa:
	Asia:
	Australia:
	Europe:
	North America:
	South America:
8. Year of first installation: 1993	
SUPPORT/UPDATES	
O Training availables - Courses - Video	on D Tutoriale D Other:
_	os 🗆 Tutorials 🗅 Other:
10. Software support available: Worldwin	
11. Cost of support: Included in License	-
12. Software updates: ■ Annually □ Semia	•
<ol> <li>Cost of updates: ■ Included in License</li> </ol>	or Maintenance Contract Uther:

14.	System documentation availab	ole as: ■ Hardco	ppy 🛘 Electronic File	es
15.	Languages available:   Arabid	; □ B	engali ■ English	☐ French
	☐ Germa	n □H	indi 🔲 Japane	ese 🔲 Mandarin
	☐ Portug	uese □ R	ussian 🔲 Spanisl	n □ Other:_
16.	Online help: ☐ Basic ■ Conte	xt Sensitive 🛭 F	lypertext □ N/A	
17.	User interface: ☐ Command	Line ■ Menus	☐ User-Customizab	le Menus
	☐ User-Gene	erated Macros	Other:	
TECHNICAL	/FUNCTIONAL			
18.	Operating systems supported:	☐ UNIX/X-Win	dows ■ PC-DOS/W	indows ■ Windows95
		■ Windows/N	「 □ MacIntosh □ Po	C-OS/2 ☐ OS/2 WARP
		□ VAX/VMS	☐ Other:	<u> </u>
19.	Minimum hardware configurat	on: 486 with 8 I	MB RAM_	
20.	Devices supported:			
		INPUT	OUTPUT	
	■ Digitizers:			
	☐ Frame Grabbers:			
	Scanners:			
	☐ GPS:			
	■ CD-ROM:			
	☐ Diskette:			
	□ Tape:			
	■ Displays:			
	☐ Film Recorders:			
	■ Electrostatic Plotters:			
	□ Pen Plotters:			·
	■ Ink Jet Printers:			
	■ Laser Printers:			
	☐ Others:		<u></u>	
21. Sou	rce code available: ◆ Yes: □ 0	C C++ FO	RTRAN □ Pascal □	Other:
	♦ No			
22. Bate	ch capability: ♦ Yes ◇ No			
23. Lini	kable libraries for data structure	access: ♦ Yes:	□C □C++ □FO	RTRAN
			☐ Pascal ☐ Other:	<u> </u>
		♦ No		
24. Inte	grated Data Base Management	System: ♦ Yes	♦ No	
25. Data	a Base File Types Supported:	■ dBase ■ Fox	base □ IMS □ INFO	□ Intergraph
		☐ Lotus ☐ Orac	cle □ Paradox □ Pro	gress
		□ Sybase □ Ot	her:	
26. Data	a Exchange Formats Supported	not reported		
27. If G	IS Product: ■ Vector ■ Raster			

DOCUMENTATION/INTERFACE

28. GIS Functionality:	
□ Map Digitizing	■ Map Display & Query
Digital Map Editing	Change Map Projections
Topographical Struc	turing
☐ Network Flow Analys	sis
□ Cell-based (Raster) I	Modeling ☐ Surface Modeling
☐ Map Composition/Ge	eneration
☐ Raster-Vector Conve	ersion
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
Interactive Display	Image Enhancement
☐ Geometric Rectificati	ion ☐ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Correcti	ons
Raster GIS Modeling	☐ Radar Geocoding & Analysis
☐ Hardcopy Map Com	p./Anno.
☐ Filtering	☐ Density Slicing
Supervised Classification	ation
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ♦ Yes ◆	No
32. Spatial index supported: ♦ Yes ♦	No

Please describe additional features: Scanning America provides complete scanning and vector conversion services as well as integration of custom document management systems.

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: FACET

COMPAN	y/Organization	
С	Company Name:	Facet Decision Systems, Inc.
С	Contact Person(s):	Scott Akenhead
S	Street Address:	187 - 916 West Broadway
С	City, State:	Vancouver, BC
Z	ip, Country:	V5Z IK7,Canada
Р	Phone:	604-739-7703
F	ax:	604-739-7753
E	Email:	info@facet.com
		sing □ AM/FM □ CAD ■ Other: <u>object-oriented modelling</u>
LICENSIN	IG/PRICING	
3	License fee is:  3. Turnkey system availab  4. Basic (minimal) softwar	
USER BA		y sortware system cost. <u> </u>
6	6. Total number of license	ed users: not reported
	7. Number of licensed use	·
·		Asia: 10%  Australia: 0  Europe: 10%  North America: 80%  South America:
8	3. Year of first installation	: <u>1993</u>
SUPPORT	T/UPDATES	
9	o. Training available: ■ ①	Courses □ Videos ■ Tutorials □ Other:
10	). Software support availa	able: ■ Worldwide □ Not Available □ Other:_
		luded in License ■ Other: 10% of license, annual
12	2. Software updates: ☐ A	nnually □ Semiannually ■ Other:
		luded in License or Maintenance Contract D Other: 10% annual

DOCUMEN.	TATION/INTERFACE			
	System documentation available			
15.	<b>Languages available:</b> □ Arabic	☐ Beng	•	□ French
	□ German			
		ese □ Russ		☐ Other:
	Online help: ☐ Basic ☐ Contex			
17.	User interface: ☐ Command I			
	■ User-Gener	ated Macros 🛚 O	ther: uses spreadshe	et metaphor
TECHNICAL	L/FUNCTIONAL			
10	Operating systems supported:	■ LINIIY/Y Windo	we DO DOS/Mindo	we D Windows 95
10.	Operating systems supported.		ws ☐ r c-bos/windo □ MacIntosh ☐ PC-O	
			Other:	3/2 <b>3</b> 03/2 WAIN
	If UNIX/X-Windows, list vendors a		<u> </u>	nly: Solaris on
	Intel coming.	ia window manage	13 3upported. <u>0011 01</u>	ny, Colans on
19.	Minimum hardware configuration	n: Sun Sparc Sta	ition 5 64 MB RAM 1	GB disk
	Devices supported:	<u>Gan oparo dia</u>	MOTO, OT METO M, T	<u> </u>
_0.	2011000 cupportour	INPUT	OUTPUT	
	□ Digitizers:	_		
	☐ Frame Grabbers:			
	□ Scanners:			
	☐ GPS:			
	■ CD-ROM: standard			
	■ Diskette: DOS and SUN			
	■ Tape: all types			
	☐ Displays:		_	
	☐ Film Recorders:			
	□ Electrostatic Plotters:			
	■ Pen Plotters:		_	IGDS, HPGL2
	■ Ink Jet Printers:		HPGL2	
	■ Laser Printers:			Postscript and HP LJ series
	☐ Others:			
21. Sou	rce code available: ♦ Yes: □ C	□ C++ □ FORTE	RAN □ Pascal □ Oth	ner:
	♦ No			
	ch capability: ♦ Yes ◊ No			
23. Lini	kable libraries for data structure a			
			☐ Pascal ☐ Other:	
		♦ No		
	grated Data Base Management S	=		
25. Dat			se □ IMS □ INFO ■	- ·
		Lotus ■ Oracle	□ Paradox □ Progres	SS

☐ Sybase ☐ Other: everything

26. Data Exchange Formats Supported: all common types, anything as required

- 27. If GIS Product: Vector Raster
- 28. GIS Functionality:
  - Map Digitizing
  - Digital Map Editing
  - Topographical Structuring
  - □ Network Flow Analysis
  - Cell-based (Raster) Modeling
  - Map Composition/Generation
  - Raster-Vector Conversion
  - Edgematching
- 29. Image Processing Functionality:
  - Interactive Display
  - Geometric Rectification
  - Image Mosaicking
  - Radiometric Corrections
  - Raster GIS Modeling
  - Hardcopy Map Comp./Anno.
  - Filtering
  - Supervised Classification
- 30. Multi-user Capability: ♦ Yes ◊ No
- 31. Expert system capability: ♦ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: Oracle 7 Spatial Data Option. Facet provides highest value use of existing investment in data.

PRODUCT NAME: FlexScreen

COMPANY	y/Organization			
	· ·	elliGIS, Inc.		
	• • •	ane Garey		
	<u>-</u>	946 Dairy Ashford, Suite 250		
	<u> </u>	igar Land, TX		
Zi	• • • • • • • • • • • • • • • • • • • •	478, USA		
Pi	hone:	3-240-2700		
Fa	·	3-240-2714		
Eı	mail: dia	aneg@igis.com		
	. Type of product: ■ GIS □ Image Processing	g ■ AM/FM □ CAD □ Other:		
LICENSING	G/PRICING			
2				
3	. Turnkey system available (	(bundled hardware & software): ♦ Yes ◊ No		
4				
5	•	oftware system cost: Please request quotation		
USER BA	.SE			
6	. Total number of licensed u	inara. F		
7.				
7	. Number of licensed users			
		Asia: Australia:		
		Europe: North America:5		
		South America:		
8.	. Year of first installation: 1			
		<u> </u>		
SUPPORT	/UPDATES			
9	. Training available: ■ Cour	rses 🗆 Videos 🗅 Tutorials 🗅 Other:		
10	. Software support available	:: ■ Worldwide □ Not Available □ Other:_		
11.	. Cost of support:  Include	ed in License ■ Other:		
12	. Software updates:  Annua	ally □ Semiannually ■ Other:		
12	Cost of undates: D. Include	ad in License or Maintenance Contract		

14	System documentation available	e as: ■ Hardconv	□ Flectronic Files	
	Languages available: ☐ Arabic	□ Benga		☐ French
10.	□ German	•	•	☐ Mandarin
		ese □ Russia		☐ Other:
16	Online help: ■ Basic □ Contex			d Other
16. 17.	·			
17.				us
	☐ User-Gener	ated Macros ם Oth	ner:	
TECHNICAL	/Functional			
18	Operating systems supported:	■ LINIX/X-Window	s D.PC-DOS/Windows	: □ Windows95
	operating systems supported.		I MacIntosh □ PC-OS/2	
			ther:	1 1 0 0 / 2 W/ (()
	If UNIX/X-Windows, list vendors a		<u> </u>	osystems
19.	Minimum hardware configuration	•	• •	<del>seystome</del>
20.		m <u>r ioaco comaci</u>	<u>vondor</u>	
20.	Devices supported.	INPUT	OUTPUT	
	□ Digitizers:	_		
	☐ Frame Grabbers:			
	□ Scanners:			
	GPS:			
	□ CD-ROM:		_	
	□ Diskette:			
	□ Tape:			
	☐ Displays:		_	
	☐ Film Recorders:			
	□ Electrostatic Plotters:			
	□ Pen Plotters:			
	☐ Ink Jet Printers:			
	□ Laser Printers:			
	□ Others:			
21. Sou	rce code available: ♦ Yes: □ C	□ C++ □ FORTR	– AN □ Pascal □ Other	•
	♦ No			<del></del>
22. Bato	ch capability: ♦ Yes ◊ No			
	cable libraries for data structure	access. O Yes. D	C DC++ DEORTRAN	J
ZO. Ziiii	able libraries for data structure t		Pascal □ Other:	
		◆ No	Tascar 🗷 Other	<del>_</del>
24 Inte	grated Data Base Management S		n	
	-	=	e □ IMS □ INFO □ Inte	argraph
ZJ. Dala	a base i ne i ypes supported.		e o iiwo o iiweo o iiiw o Paradox o Progress	Sigiapii
		☐ Sybase ☐ Other:	_	
26 Data	a Exchange Formats Supported:	-	v GISAIIL	

DOCUMENTATION/INTERFACE

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:	
☐ Map Digitizing	☐ Map Display & Query
Digital Map Editing	□ Change Map Projections
Topographical Structuring	□ Datum Changes
□ Network Flow Analysis	□ Vector Overlay Analysis
Cell-based (Raster) Modeling	☐ Surface Modeling
Map Composition/Generation	□ Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
Geometric Rectification	☐ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
☐ Raster GIS Modeling	☐ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	☐ Principal Components Analysis
☐ Filtering	☐ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	
Please describe additional features: FlexScreen	is a GIS-based ticket screening and management
system for central One-Call facilities and field engine	ers and line spotters. It provides automated and

manual ticket screening, route finding, message dispatching and archiving functions.

PRODUCT NAME: FPMS - Flood Plain Management System

Сомра	ANY/	Organization			
	_				_
			ogix Corporation		
		• • •	th R. DePodesta	, Peter Nimmrichter	
	Stre	eet Address: 3215	North Service Roa	ad, P.O. Box 220	
	City, State: Burlington, Ontario				
		<u>-</u>	Y2, Canada		
	Pho	one: 905-3	32-6488		
	Fax		35-1414		
	Ema	ail: <u>cartol</u>	x@ftn.net		
		<b>-</b>			
	1.	Type of product:	¬ ^ N / F M . ■ C	AD Débor	
		■ GIS ☐ Image Processing	J AIVI/FIVI ■ C	AD 🗅 Other:	
LICENS	SING/	PRICING			
	2.	Is the product public domain	r commercial?		
		◆ Commercial Product			
		Licensed by: ■ User	☐ System ■ S	ite 🛘 Other:	
		License fee is: ■ One	Time Charge 🛚	Other Charge:	
	3.	Turnkey system available (bundled hardware & software): ♦ Yes ♦ No			
	4.	Basic (minimal) software system cost: \$10000			
	<b>5</b> .	Complete (fully capable) softw	are system cos	t: <u>\$20,000</u>	
USER I	Base				
	6	Total number of licensed use	s· 1		
	7.	Number of licensed users by	<u> </u>	ca:	
	•	Number of meetised users by		a:	
				stralia:	
				ope:	
				th America: 4	
				uth America:	
	8.	Year of first installation: 1996			
SUPPO	RT/L	IPDATES			
		-			
	9.	Training available: ■ Courses	☐ Videos ■	Tutorials 🛘 Other:	
	10.	Software support available:	Worldwide 🗆	Not Available □ Other:_	
	11.	Cost of support: ☐ Included in	License ■ Oth	er:	
	12.	Software updates: ☐ Annually	☐ Semiannually	/ ■ Other: As required	
	13.	Cost of updates: ☐ Included i	License or Main	tenance Contract ■ Other: Not core technology	

DOCUMENT	ration/Interface				
14	System documentation availab	le as. ■ H	lardcony □ El	lectronic Files	
	Languages available: ☐ Arabic		□ Bengali	■ English	☐ French
13.	☐ German		☐ Hindi	<ul><li>■ Lingilsii</li><li>□ Japanese</li></ul>	☐ Mandarin
		uese	□ Russian	☐ Spanish	☐ Other:_
16	Online help: ■ Basic □ Contex				d Other.
				Customizable Men	
17.					us
	■ User-Gene	rated Macro	os ■ Other:	<u>alaiogues</u>	
TECHNICAL	/FUNCTIONAL				
TECHNICAL	JI UNCTIONAL				
18.	Operating systems supported:	□ UNIX/X	K-Windows ■	PC-DOS/Windows	■ Windows95
		■ Windov	ws/NT 🛚 Mac	Intosh ☐ PC-OS/2	P □ OS/2 WARP
		□ VAX/VI	MS ☐ Other:_		
19.	Minimum hardware configuration	on: 486/Pe	entium CPU, 16	6-32 MB RAM, 1 G	B disk storage,
	SVGA display				
20.	Devices supported:				
		INPUT		OUTPUT	
	■ Digitizers: as supported by Au	utoCAD			
	■ Frame Grabbers: external to a	application			
	■ Scanners: hardware depender	ent			
	■ GPS: external to application				
	■ CD-ROM: hardware depende	ent			
	■ Diskette: hardware dependen	t			
	■ Tape: hardware dependent				
	■ Displays:			_ as	supported by AutoCAD
	■ Film Recorders:			hardware depe	endent
	■ Electrostatic Plotters:			as supported b	oy AutoCAD_
	■ Pen Plotters:			<u>as</u> :	supported by AutoCAD
	■ Ink Jet Printers:			as supported b	oy AutoCAD_
	■ Laser Printers:			<u>as</u>	supported by AutoCAD
	☐ Others:				
21. Sou	rce code available: ◊ Yes: ☐ C	C++ □	FORTRAN	□ Pascal □ Other:	<u></u>
	◆ No				
22. Bato	ch capability: ♦ Yes ◇ No				
23. Link	cable libraries for data structure	access: •	Yes: □C ■	C++ □ FORTRAN	1
			☐ Pasc	al □ Other:	<u> </u>
		$\Diamond$	No		
24. Inte	grated Data Base Management \$	System: 🔷	Yes ♦ No		
25. Data	a Base File Types Supported:	■ dBase	■ Foxbase □ I	MS □ INFO □ Inte	ergraph
		□ Lotus ■	Oracle ■ Par	adox □ Progress	
		■ Sybase	Other: Info	rmix, Rbase, ODBO	C compliant_
26. Data	a Exchange Formats Supported:	=			

27. If GIS Product: ■ Vector □ Raster

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- □ Filtering
- □ Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ◊ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - ☐ Image Enhancement
- □ Spatial Filtering
  - □ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

Please describe additional features: The Water Surface Profile program HEC-2 (from the US Army

Corps of Engineers) is integrated with AutoCAD, ADE, Spatialist, Rbase, QuickSURF and CADOverlay for
the comprehensive management of flood plain data in a seamless, continuous map environment.

PRODUCT NAME: FRK

COMPAN	y/Organization	
C	Company Name:	FORMATEK INC.
C	Contact Person(s):	Pierre-Paul Grondin
S	Street Address:	1365, rue Galilee, bureau 100
C	City, State:	Quebec
Z	Zip, Country:	G1P 4G4, Canada
Р	Phone:	418-681-7344
F	ax:	418-681-8779
E	Email:	formatek@riq.qc.ca
		sing 🗆 AM/FM 🗅 CAD 🗅 Other:
LICENSIN	NG/PRICING	
3	License fee is:   3. Turnkey system availab  4. Basic (minimal) software	uct User ■ System ■ Site □ Other:  One Time Charge ■ Other Charge:  le (bundled hardware & software): ◆ Yes ◊ No
USER BA	ASE	
6	6. Total number of license	dusers: Over 200
	7. Number of licensed use	
•	Trambor or moonlood doo	Asia:
		Australia:
		Europe: 20
		North America: 190
		South America: 10
8	3. Year of first installation:	not reported_
SUPPORT	T/UPDATES	
10	D. Software support availa	ourses ■ Videos ■ Tutorials □ Other:  ble: ■ Worldwide □ Not Available □ Other:_ uded in License □ Other:
12	2. Software updates:  An	nually ■ Semiannually □ Other:
12	Cost of undates:	uded in License or Maintenance Contract   Other: 500\$ per annum

DOCUMENT	TATION/INTERFACE			
14.	System documentation available	e as: ■ Hardcop	y ■ Electronic Files	
15.	Languages available: 🗆 Arabic	□ Ben	gali ■ English	■ French
	☐ German	☐ Hind	di □ Japanese	☐ Mandarin
	☐ Portugue	ese □ Rus	sian ■ Spanish	☐ Other:_
16.	Online help: ☐ Basic ☐ Context	Sensitive ■ Hyp	pertext 🗆 N/A	
17.	User interface: ☐ Command L	ine ■ Menus □	User-Customizable Me	enus
	☐ User-Gener	ated Macros 🛭 0	Other:	
TECHNICAL	/Functional			
. 2011110712	21 011011011112			
18.	Operating systems supported:	☐ UNIX/X-Windo	ows ■ PC-DOS/Window	vs 🖵 Windows95
		☐ Windows/NT	☐ MacIntosh ☐ PC-OS	/2 □ OS/2 WARP
		□ VAX/VMS □	Other:	
19.	Minimum hardware configuration	n: 386 - 8 MB of	RAM	
20.	Devices supported:			
		INPUT	OUTPUT	
	☐ Digitizers:			
	■ Frame Grabbers: Bravado 16 f			
	☐ Scanners:			
	■ GPS: Any x, y data via serial po		<del></del>	
	■ CD-ROM:			
	■ Diskette:			
	☐ Tape:		_	
	■ Displays:			
	☐ Film Recorders:			<del></del>
	■ Electrostatic Plotters:		Any Windows comp	atible
	□ Pen Plotters:		7 my Windows comp	dibio
	☐ Ink Jet Printers:			<del></del>
	☐ Laser Printers:		-	
	☐ Others:		-	
21 Sou	rce code available: ♦ Yes: □ C	□ C++ □ FORT	— RAN □ Pascal □ Othe	<u></u>
21.000	♦ No	2011 210101	TOTAL STASSAL STATE	<u> </u>
22 Rate	ch capability: ◊ Yes ♦ No			
	• •	veeses A Vee	⊃ C ■ C □ FODTD/	ANI
Z3. LIIII	cable libraries for data structure a			
			□ Pascal □ Other:	
04 1		♦ No	NI -	
	grated Data Base Management S			. (
25. Data	a Base File Types Supported:			- ·
			Paradox ☐ Progress	<b>;</b>
		Sybase ■ Other	er: Access	
26. Data	a Exchange Formats Supported:_	DXF, DGN		

28. GIS Functionality:

27. If GIS Product: ■ Vector ■ Raster

	■ Map Digitizing	■ Map Display & Query
	☐ Digital Map Editing	■ Change Map Projections
	☐ Topographical Structuring	■ Datum Changes
	☐ Network Flow Analysis	■ Vector Overlay Analysis
	☐ Cell-based (Raster) Modeling	Surface Modeling
	☐ Map Composition/Generation	Buffer generation
	☐ Raster-Vector Conversion	■ Line-of-Sight Analysis
	☐ Edgematching	□ Map Joining
29. Image Proce	essing Functionality:	
	☐ Interactive Display	Image Enhancement
	☐ Geometric Rectification	☐ Spatial Filtering
	☐ Image Mosaicking	☐ Fourier Analysis
	☐ Radiometric Corrections	Multivariate/Statistical Analysis
	☐ Raster GIS Modeling	Radar Geocoding & Analysis
	☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
	☐ Filtering	Density Slicing
	□ Supervised Classification	Unsupervised Classification
30. Multi-user C	apability: ◊ Yes ♦ No	
31. Expert syste	em capability: ◊ Yes ♦ No	
32. Spatial inde	x supported: ♦ Yes ◊ No	

Please describe additional features: FRK software lets workstation users display analog maps stored on videodiscs along with digital images, vectors and text data stored on the computer's hard disk.

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: GenaMap

COMPANY/	Organization	
	-	nasys II, Inc.
Coi	ntact Person(s): not	reported
Str	eet Address: 150	01 South Lemay Ave.
City	y, State: For	t Collins, CO
Zip	, Country:809	524, USA
Pho		0-493-0035
Fax	<b>C</b> :970	0-493-0966
Em	ail:not	reported
1.		□ AM/FM ■ CAD □ Other:
2.		
3.	Turnkey system available (	bundled hardware & software): ♦ Yes ◊ No
4.	Basic (minimal) software sy	vstem cost: \$2,000
5.	Complete (fully capable) so	ftware system cost:\$12,000
USER BAS	E	
6.	Total number of licensed us	sers: 3,800
7.	Number of licensed users b	by continent: Africa:
		Asia:
		Australia:
		Europe:
		North America:
		South America:
8.	Year of first installation: 19	<u>985                                    </u>
Support/U	IDDATES	
SUPPORTA	JPDA1E3	
9.	Training available: ■ Cour	ses □ Videos □ Tutorials □ Other:
10.	_	 : ■ Worldwide □ Not Available □ Other:_
11.		d in License ■ Other: % of sale price
		ally □ Semiannually □ Other:
		d in License or Maintenance Contract  Other:

DOCUMENT	TATION/INTERFACE				
14.	System documentation availal	ole as: ■ ⊦	Hardcopy ■ F	Electronic Files	
15.	_		□ Bengali	■ English	☐ French
	□ Germa		□ Hindi	■ Japanese	■ Mandarin
	□ Portug		☐ Russian	■ Spanish	■ Other: Thai,
	<b>G</b> F ortag	ucsc	- rassian	<b>—</b> Оранізн	Korean
16	Online help: ■ Basic ■ Conte	yt Sensitive	■ Hypertext	□ N/Δ	<u> </u>
	-			-Customizable Menu	ue .
17.				-Odstornizable Ment	us
	<b>-</b> 0361 Gen	natoa Macro	os 🗖 Otrici		
TECHNICAL	/FUNCTIONAL				
LOTHIOAL	JI CHOTIONAL				
18.	Operating systems supported	: ■ UNIX/>	X-Windows 🗆	PC-DOS/Windows	☐ Windows95
		■ Windo	ws/NT □ Ma	cIntosh □ PC-OS/2	. □ OS/2 WARP
		□ VAX/V	MS 🗆 Other:		
	If UNIX/X-Windows, list vendors	and window	managers sur	ported: <u>HP, SUN,</u>	IBM, DEC, Silicon
	Graphics, SCO, Motif or Open W	'indows			
19.	Minimum hardware configurat		3 RAM, 500 M	B disk, 256 colors	
20.					
	••	INPUT		OUT	PUT
	■ Digitizers: Calcomp, Altek, G	TCO, Numo	nics,		
	Summa, Hitachi				
	☐ Frame Grabbers:				
	■ Scanners: All through TIFF				
	■ GPS: All through ASCII				
	CD-ROM: All				
	■ Diskette: 3.5"				
	■ Tape: 4mm, 8mm				
	☐ Displays:				
	☐ Film Recorders:				
	■ Electrostatic Plotters:			HP, Calcomp,	Versatec.
					stergraphics
	■ Pen Plotters:			All	with HPGL2
	■ Ink Jet Printers:			HP	
	■ Laser Printers:			<u>HP</u>	
	□ Others:				
21. Sou	rce code available: ♦ Yes: 🗖 🤇			□ Pascal □ Other:	
	◆ No				
22. Bato	ch capability: ♦ Yes ◇ No				
	cable libraries for data structure	access:	Yes: ■C	C++ □ FORTRAN	١
			□ Pas	cal 🛘 Other:	

□ dBase □ Foxbase □ IMS □ INFO □ Intergraph

♦ No

24. Integrated Data Base Management System: ♦ Yes ◇ No

25. Data Base File Types Supported:

□ Lotus	■ Oracle □ Paradox □ Progress
■ Sybas	se ■ Other: Informix, Ingres, Interbase, SQL/400
26. Data Exchange Formats Supported: DGN, [	DXF, DLG, MOSS, many others
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
■ Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
■ Raster-Vector Conversion	■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	■ Image Enhancement
■ Geometric Rectification	□ Spatial Filtering
■ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
■ Raster GIS Modeling	□ Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	<ul> <li>Principal Components Analysis</li> </ul>
■ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ◆ Yes ◊ No	

Please describe additional features: Not reported

32. Spatial index supported: ♦ Yes ◊ No33. Object Oriented Architecture: ◊ Yes ♦ No

PRODUCT NAME: GEO AXSES

COMPANY	y/Organization			
C	ompany Name:	AXSES, Inc.		
C	ontact Person(s):	lan Clayton		
St	treet Address:	Boutiliers Point		
Ci	ity, State:	Nova Scotia		
Zi	ip, Country:	BoJ 1G0, Canada		
	hone:	902-826-2440		
	ax:	902-826-7274		
Eı	mail:	iclayton@fox.nstn.ca		
	-	sing 🗆 AM/FM 🗅 CAD 🗅 Other:		
LICENSING	g/Pricing			
3. 4.	License fee is: Turnkey system availab Basic (minimal) softwar			
USER BA	SE			
6.	. Total number of license	d users: 60		
7.	. Number of licensed use	ers by continent: Africa: 0		
		Asia: <u>5</u>		
		Australia: 0		
		Europe: 5		
		North America: 50		
		South America: 2		
8.	. Year of first installation	: <u>1992</u>		
SUPPORT	/UPDATES			
9.	. Training available: ■ 0	Courses □ Videos ■ Tutorials □ Other:		
	_	ble: ■ Worldwide □ Not Available □ Other:		
		uded in License ■ Other: \$199		
		nnually 🗆 Semiannually 🗅 Other:		
	Cost of undates:  Included in License or Maintenance Contract  Other: \$199			

DOCUMEN	TATION/INTERFACE			
44	0		. Electronic Ellec	
	System documentation available			55.1
15.	Languages available: ☐ Arabic	☐ Beng	•	□ French
	☐ German			☐ Mandarin
	□ Portugu		•	☐ Other:_
	Online help: ■ Basic □ Contex	= =		
17.	User interface: ☐ Command			enus
	■ User-Gener	rated Macros 🚨 O	ther:	
TECHNICAL	L/FUNCTIONAL			
18	Operating systems supported:	□ UNIX/X-Windo	ws PC-DOS/Windo	vs ■ Windows95
10.	operating systems supported.		☐ MacIntosh ☐ PC-OS	
			Other:	5/2 G 00/2 W/((()
19	Minimum hardware configuration		Juioi	
	Devices supported:	<u>. 50 0 1011                              </u>		
20.	bevices supported.	INPUT	OI	JTPUT
	■ Digitizers: Calcomp, HP	1141 01		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	■ Frame Grabbers: Windows, P	 izzaz	<del></del>	
	■ Scanners: many - TIFF, BMP,		<del></del>	
	<b>—</b> ODO:			
	■ CD-ROM: many		_	
	■ Diskette: all		_	
	■ Tape: many			
	■ Displays:			/GA/SVGA
	Film Recorders:		 AVI, TPEG	
	☐ Electrostatic Plotters:			
	■ Pen Plotters:			
	■ Ink Jet Printers:		HP	
	■ Laser Printers:			 HP
	☐ Others:		_	
21. Sou	ırce code available: ♦ Yes: ■ C	■ C++ ■ FORT	RAN □ Pascal ■ Oth	er: <u>VBASIC, FOXPRO</u>
	♦ No			
22. Bate	ch capability: ♦ Yes ◇ No			
23. Lini	kable libraries for data structure	access: ♦ Yes: I	■C ■C++ □FORTR	AN
		Ţ	□ Pascal □ Other:	
		♦ No		
24. Inte	grated Data Base Management S	ystem: ♦ Yes ◇ N	No	
	a Base File Types Supported:	-	se 🗆 IMS 🗀 INFO 🗀 li	ntergraph
			□ Paradox □ Progress	• .
		□ Sybase □ Othe	<del>-</del>	
26. Data	a Exchange Formats Supported:	-	<del></del>	

27. If GIS Product: ■ Vector □ Raster

28. GIS Functionality:

■ Map Digitizing ■ Map Display & Query ■ Digital Map Editing ■ Change Map Projections ■ Topographical Structuring ■ Datum Changes ■ Network Flow Analysis ■ Vector Overlay Analysis □ Cell-based (Raster) Modeling □ Surface Modeling ☐ Map Composition/Generation ■ Buffer generation ■ Line-of-Sight Analysis □ Raster-Vector Conversion ■ Edgematching ■ Map Joining 29. Image Processing Functionality: ☐ Interactive Display ☐ Image Enhancement ☐ Geometric Rectification □ Spatial Filtering ☐ Image Mosaicking □ Fourier Analysis □ Radiometric Corrections ☐ Multivariate/Statistical Analysis ☐ Raster GIS Modeling □ Radar Geocoding & Analysis ☐ Hardcopy Map Comp./Anno. ☐ Principal Components Analysis ■ Filtering □ Density Slicing ☐ Supervised Classification ☐ Unsupervised Classification 30. Multi-user Capability: ♦ Yes ♦ No 31. Expert system capability: ◆ Yes ◊ No 32. Spatial index supported: ♦ Yes ◊ No

Please describe additional features: not reported

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: GeoCity

Сомра	NY/C	ORGANIZATION			
	Cor	npany Name:	CLEMESSY S.A.		
		ntact Person(s):	Otmar Galicien, Mar	rcel Degliame	
	Stre	eet Address:	18 rue de Thann		
	City	, State:	68057 Mulhouse		
	Zip,	Country:	France		
	Pho	one:	33-89-32-31-36		
		:	33-89-32-32-07		
	Ema	ail:	not reported		
	1.	Type of product: ■ GIS □ Image Proces	sing 🗅 AM/FM 🗓	□ CAD □ Other:	
LICENS	ING/	PRICING			
	3. 4.	License fee is: I Turnkey system availab Basic (minimal) softwar	uct User □ System □ One Time Charge le (bundled hardwa e system cost: 10	al?  □ Site □ Other: e □ Other Charge: are & software): ◆ Yes ◊ No 00 000 - 150 000 FRF (1 user)  cost: _ 200 000 - 250 000 FRF (1 user)	
USER E	BASE	<b>=</b>			
	6.	Total number of license	d users: <u>140</u>		
	7.	Number of licensed use	rs by continent:	Africa: 2	
				Asia:	
				Australia: 13	
				Europe: 125	
				North America:	
	_			South America:	
	8.	Year of first installation	1989_		
SUPPO	RT/U	IPDATES			
	9.	Training available: ■ 0	ourses 🗆 Videos	□ Tutorials □ Other:	
		_		□ Not Available □ Other:	
		• •		Other: Maintenance contract	
		• •			
		. Software updates: ■ Annually □ Semiannually □ Other: Cost of updates: ■ Included in License or Maintenance Contract □ Other:			

14.	System documentation available	e as: □ Hardco	opv <b>■</b> E	lectronic Files	
15.	-		engali	■ English	■ French
	■ German		•	□ Japanese	☐ Mandarin
	□ Portugue		ussian	☐ Spanish	■ Other: <u>Easily</u>
	<b>=</b> 1 51 tagas		accian		<u>multilingual</u>
16.	Online help: ■ Basic □ Context	t Sensitive □ H	lvpertext	□ N/A	<u>a.agaa.</u>
	•		• •	Customizable Men	IIS
•••				User Friendly Wind	
CHNICAL	L/FUNCTIONAL				
18	Operating systems supported:	■ I INIX/X-\//in	dows 🗆	PC-DOS/Windows	: 🗇 Windows95
10.	operating systems supported.			Intosh PC-OS/2	
		□ VAX/VMS			
	If UNIX/X-Windows, list vendors ar				
19.	Minimum hardware configuratio		-	•	
20.	Devices supported:	m. Our Or Aire	<u> </u>	D TO TIVI, T OD GIOC	_
20.	Dovides supported.	INPUT		OUT	DIIT
	■ Digitizers: OceGraphics, Calco	_		001	701
	Summegraphics	-			
	<ul><li>□ Frame Grabbers:</li><li>■ Scanners: Agfa, HP</li></ul>				
	GPS:				
	■ CD-ROM:				
	■ Diskette:				
	■ Tape: <u>DAT, EXABYTE</u>				
	Displays:			Su	n. Xterminal (1024 x 748 mini)
	☐ Film Recorders:			_ <u></u>	, xxo
	■ Electrostatic Plotters:			PI 636, Calcor	an
	■ Pen Plotters:				e, Calcomp (HPGL)
	■ Ink Jet Printers:			XL 300, Nova	
					ostscript, HPGL)
	■ Laser Printers:			•	P, Apple, (Postscript)
	☐ Others:				
21. Sou	urce code available: ◆ Yes: ■ C	□C++ □FO	RTRAN	□ Pascal □ Other	: <u> </u>
	♦ No				
22. Bat	ch capability: ♦ Yes ♦ No				
23. Lini	kable libraries for data structure a	ccess:   Yes:	: ■C □	C++ DFORTRAM	N
			□ Paso	al 🗆 Other:	
		♦ No			
24. Inte	egrated Data Base Management S	ystem: ♦ Yes	♦ No		
	-				
25. Data	a Base File Types Supported:	□ dBase □ Fox	base □ l	MS □ INFO □ Inte	ergraph

DOCUMENTATION/INTERFACE

□ Lotu	us □ Oracle □ Paradox □ Progress
■ Syb	ase □ Other:
26. Data Exchange Formats Supported: ASCI	I, ARC/Info, MOSS, DXF, Michelin, APIC
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	Surface Modeling
■ Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	Image Enhancement
Geometric Rectification	□ Spatial Filtering
■ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	

Please describe additional features: not reported

**33. Object Oriented Architecture:** ◊ Yes ♦ No

PRODUCT NAME: GEOKEY

COMPANY/ORGANIZATION					
Commons Names	CEODAN				
Company Name:	GEODAN  Medeleine Verspury Heidi van der Vlagt				
Contact Person(s): Street Address:					
City, State:	Jan Luijkenstraat 10 1071 CM Amsterdam				
Zip, Country:					
Phone:					
Fax:	020-6762794				
Email:					
	madolom@goodanam or noran@goodanam				
1. Type of product:					
□ GIS □ Image Proce	essing □ AM/FM □ CAD ■ Other: (Geographical) Meta-Information				
-	Management System				
LICENSING/PRICING					
2. Is the product public of					
◆ Commercial Pro					
	□ User □ System ■ Site □ Other:				
	: ■ One Time Charge □ Other Charge:				
	able (bundled hardware & software): ♦ Yes ♦ No				
	are system cost: DFI 30.000				
5. Complete (fully capab	ole) software system cost: Dfl 30.000				
USER BASE					
6 Total number of licens	sed users: 10 (big governmental associations)				
7. Number of licensed us	,				
7. Number of ficerised us	Asia:				
	Australia:				
	Europe: 10				
	North America:				
	South America:				
8. Year of first installatio					
SUPPORT/UPDATES					
COLLONIALES					
9. Training available: ■	Courses □ Videos ■ Tutorials □ Other:				
10. Software support avai	ilable: ☐ Worldwide ☐ Not Available ■ Other: Netherlands, Poland				
11. Cost of support: □ In	ncluded in License ■ Other: DFI 5.000 p/year				
12. Software updates: □ /	Annually ■ Semiannually □ Other:				
13. Cost of updates: ■ In	ncluded in License or Maintenance Contract  □ Other:				

System documentation available	• •			
Languages available: ☐ Arabic	□ Bengali	<del>-</del>	☐ French	
			☐ Mandarin	
☐ Portugu	ese 🖵 Russiar	□ Spanish	■ Other: <u>Dutch</u>	
Online helm. ■ Posis ■ Contox	t Consitius = Lunart	ov4 □ N/Λ	<u>Polish</u>	
<u>-</u>	• •			
			us	
USer-Gener	ated Macros 🗖 Office			
/FUNCTIONAL				
TUNCTIONAL				
Operating systems supported:	■ UNIX/X-Windows	■ PC-DOS/Windows	s □ Windows95	
	□ Windows/NT □ MacIntosh □ PC-OS/2 □ OS/2 WARP			
□ VAX/VMS □ Other:				
If UNIX/X-Windows, list vendors a	nd window managers	supported: Not repor	<u>ted</u>	
Minimum hardware configuration	on: PC 80486 with 8	MB free space		
Devices supported:				
	INPUT	OUT	PUT	
☐ Digitizers:	_			
☐ Frame Grabbers:				
■ Scanners: able to read all kind	ls of scanned			
<u>pictures</u>				
☐ Diskette:	_			
•				
		-		
		·	•	
	GOTT GIORINA	Trascal Gottler	•	
-	accass. O Vas. D.C		N.	
ubic libraries for data structure a				
	<b>-</b>	assai 🗖 Other	<del>_</del>	
	Online help: ■ Basic ■ Context User interface: □ Command □ User-Gener  /FUNCTIONAL  Operating systems supported:  If UNIX/X-Windows, list vendors a Minimum hardware configuration Devices supported:  □ Digitizers: □ Frame Grabbers: □ Scanners: able to read all kinder pictures  □ GPS: □ CD-ROM: □ Diskette: □ Tape: □ Displays: □ Film Recorders: □ Context □	German	German	

**25. Data Base File Types Supported**: ■ dBase □ Foxbase □ IMS □ INFO □ Intergraph

□ Lotus ■ Oracle □ Paradox □ Progress					
☐ Sybase ■ Other: Ingres, Access 1.1, Access 2.0,					
26. Data Exchange Formats Supported: the database with the meta data can be written as a Ingres or					
Oracle :	script.				
27. If GIS Product: ☐ Vector ☐ Raster					
28. GIS Functionality:					
☐ Map Digitizing	☐ Map Display & Query				
Digital Map Editing	☐ Change Map Projections				
Topographical Structuring	□ Datum Changes				
Network Flow Analysis	□ Vector Overlay Analysis				
Cell-based (Raster) Modeling	□ Surface Modeling				
Map Composition/Generation	□ Buffer generation				
Raster-Vector Conversion	☐ Line-of-Sight Analysis				
Edgematching	☐ Map Joining				
29. Image Processing Functionality:					
☐ Interactive Display	☐ Image Enhancement				
Geometric Rectification	☐ Spatial Filtering				
☐ Image Mosaicking	☐ Fourier Analysis				
Radiometric Corrections	□ Multivariate/Statistical Analysis				
Raster GIS Modeling	□ Radar Geocoding & Analysis				
Hardcopy Map Comp./Anno.	Principal Components Analysis				
☐ Filtering	□ Density Slicing				
Supervised Classification	Unsupervised Classification				
<b>30. Multi-user Capability: ◆</b> Yes ◊ No					
31. Expert system capability: ♦ Yes ♦ No					
32. Spatial index supported: ♦ Yes ◊ No					

Please describe additional features: GEOKEY is a meta information system, in which all kinds of information about information can be stored and viewed (GEOKEY select) and edited (GEOKEY edit).

Every organization using GEOKEY can customize it to its own wishes and data structures. GEOKEY is the ideal tool for managing meta info and make info available to every user in an organization. Users of GEOKEY select can apply a number of selection methods on the available meta info, to quickly find the info they are looking for. Once the info is found, there are possibilities to start the GIS the data was generated in, from GEOKEY select, using the found information. GEOKEY is not built solely for one kind of geographical information, but can be used to store info on all kinds of GIS information and even non-GIS information. It's possible to adapt the meta data structure to any standards you wish to use.

33. Object Oriented Architecture: ◊ Yes ♦ No

PRODUCT NAME: GeoLink Mapping System

COMPANY	y/Organization		
	ompany Name:	GeoResearch, Inc.	
C	ontact Person(s):	Darrel E. Peterson	
St	treet Address:	115 North Broadway	
C	ity, State:	Billings, MT	
Zi	ip, Country:	59101, USA	
P	hone:	406-248-6771	
Fa	ax:	406-248-6770	
E	mail:	geolink@gri.com	
	. Type of product:  □ GIS □ Image Proces	sing □ AM/FM □ CAD ■ Other: <u>GPS/GIS</u>	
LICENSIN	G/I RIGING		
	License fee is: I		
4	Basic (minimal) software system cost: \$2,495		
5	5. Complete (fully capable) software system cost: \$7,500		
USER BA	SE		
6	. Total number of license	d users: 1000 +	
7.	. Number of licensed use	rs by continent: Africa: 6%	
		Asia: 15%	
		Australia: 4%	
		Europe: 10%	
		North America: 50%	
		South America: 15%	
8	. Year of first installation	: 1989	
_			
SUPPORT	/UPDATES		
9	Training available.	courses □ Videos □ Tutorials □ Other:	
10	_	ble: ■ Worldwide □ Not Available □ Other:	
_		uded in License ■ Other: Annual program	
		nnually  Semiannually Other:	
		luded in License or Maintenance Contract	

14.	System documentation available	le as: ■ Hardcopy □	☐ Electronic Files	
	Languages available: ☐ Arabic	□ Bengali		□ French
	☐ German	•	□ Japanese	☐ Mandarin
	□ Portugu		•	☐ Other:_
16.	Online help: ☐ Basic ☐ Contex			<u> </u>
17.				US
		rated Macros   Other		
	_ 000. 000.			
TECHNICAL	L/FUNCTIONAL			
18.	Operating systems supported:	☐ UNIX/X-Windows	■ PC-DOS/Windows	s ■ Windows95
		□ Windows/NT □ I	MacIntosh ☐ PC-OS/2	2 □ OS/2 WARP
		□ VAX/VMS □ Oth	ner:	
19.	Minimum hardware configuration	n: 486 for laptop or	notebook computer	
20.	Devices supported:			
		INPUT	OUT	PUT
	☐ Digitizers:			
	☐ Frame Grabbers:			
	☐ Scanners:			
	■ GPS:	_		
	☐ CD-ROM:			
	☐ Diskette:			
	☐ Tape:			
	□ Displays:			
	☐ Film Recorders:			
	□ Electrostatic Plotters:		-	
	□ Pen Plotters:			
	☐ Ink Jet Printers:			
	☐ Laser Printers:			
	□ Others:			
21. Sou	rce code available: ♦ Yes: □ C	☐ C++ ☐ FORTRA	.N ☐ Pascal ☐ Other	: <u> </u>
	♦ No			
	ch capability: ♦ Yes ◊ No			
23. Link	kable libraries for data structure a			
			Pascal 🗆 Other:	<u> </u>
		♦ No		
	grated Data Base Management S	-		
25. Data			□ IMS □ INFO □ Into	ergraph
			Paradox ☐ Progress	
00 5	- Facebourne France ( O	☐ Sybase ☐ Other:_		
	a Exchange Formats Supported:	not reported		
27. If G	IS Product: ☐ Vector ☐ Raster			

DOCUMENTATION/INTERFACE

28. GIS Functionality:

□ Map Digitizing	□ Map Display & Query
Digital Map Editing	■ Change Map Projections
Topographical Structuring	■ Datum Changes
□ Network Flow Analysis	Vector Overlay Analysis
☐ Cell-based (Raster) Modeling	□ Surface Modeling
☐ Map Composition/Generation	Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
☐ Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ◊ Yes ◊ No	
32. Spatial index supported: ◊ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ♦ No	

Please describe additional features: not reported

PRODUCT NAME: GEOMAX Software

COMPANY/	ORGANIZATION	
Co	mpany Name:	GEOMAX International, Inc.
Co	ntact Person(s):	Jean-Guy Laplante
Str	reet Address:	80, Jean-Proulx
Cit	ty, State:	Hull, Quebec
Zip	o, Country:	J8Z 1W1, Canada
Ph	one:	819-770-9631
Fax	x:	819-770-9267
Em	nail:	not reported
	Type of product: ■ GIS □ Image Proces	sing ■ AM/FM □ CAD □ Other:
LICENSING	6/PRICING	
3. 4.	License fee is: Turnkey system availab Basic (minimal) softwar	
USER BAS	SE .	
6.	Total number of license	ed users: <u>+600</u>
7.	Number of licensed use	ers by continent: Africa: 10
		Asia: <u>5</u>
		Australia: 75
		Europe: 160
		North America: 350
		South America: 0
8.	Year of first installation	: <u>1984</u>
SUPPORT/	UPDATES	
2	Tunining and 11 = 0	Davisas D. Vidasa D. Tutariala D. Olhari
	_	Courses Uvideos Untutorials Unther:
10.		able: ■ Worldwide □ Not Available □ Other:
11.	• •	luded in License ■ Other: 12% to 18% of the license value
	·	nnually □ Semiannually □ Other: luded in License or Maintenance Contract □ Other:

15.	Languages available: 🗅 Arabic	□ Bengali	■ English	■ French
	☐ German	☐ Hindi	□ Japanese	■ Mandarin
	☐ Portugues		□ Spanish	☐ Other:_
16.	Online help: ☐ Basic ☐ Context S	ensitive  Hypertext	□ N/A	
17.	User interface: ■ Command Lin	e ■ Menus ■ Use	-Customizable Men	us
	■ User-Generate	ed Macros 🛚 Other:_	,	
IICAL	L/FUNCTIONAL			
18.	Operating systems supported:	■ UNIX/X-Windows □	PC-DOS/Windows	□ Windows95
		■ Windows/NT □ Ma		
		■ VAX/VMS □ Other:		
	If UNIX/X-Windows, list vendors and			N and all PCs with
	<u>"Linux".</u>			
19.	Minimum hardware configuration:	16 MEG of RAM, 50	0 MEG of disc, high	resolution graphic
	<u>capabilities</u>			
20.	Devices supported:			
	li di	NPUT	OUT	PUT
	■ Digitizers: most			
	☐ Frame Grabbers:			
	■ Scanners: standard interfaces			
	□ GPS:			
	■ CD-ROM: standard interfaces			
	■ Diskette: standard interfaces			
	Tape: standard interfaces			
	■ Displays:		<u>sta</u>	ndard interfaces
	☐ Film Recorders:		aton dord intorf	
	<ul><li>■ Electrostatic Plotters:</li><li>■ Pen Plotters:</li></ul>		standard interfa	
	■ Peri Plotters. ■ Ink Jet Printers:		 most standard	st standard interfaces
	Laser Printers:			st standard interfaces
	☐ Others:		<u></u>	ot otanidara intoridodo
Sou	urce code available: ◊ Yes: ☐ C ☐		□ Pascal □ Other:	
	◆ No			_
Bate	ch capability: ♦ Yes ♦ No			
	kable libraries for data structure ac	cess: ♦ Yes: ■ C	■ C++ □ FORTRAN	J
			cal □ Other:	
		♦ No		
	egrated Data Base Management Sys	tame A Vos. A No.		

DOCUMENTATION/INTERFACE

	□ Lotu	s ■ Oracle □ Paradox □ Progress
	■ Syba	ase ■ Other: Informix and Netbase
26. Data Exc	hange Formats Supported: not re	<u>ported</u>
27. If GIS Pro	oduct: ☐ Vector ☐ Raster	
28. GIS Fund	tionality:	
	■ Map Digitizing	■ Map Display & Query
	■ Digital Map Editing	■ Change Map Projections
	■ Topographical Structuring	■ Datum Changes
	■ Network Flow Analysis	■ Vector Overlay Analysis
	■ Cell-based (Raster) Modeling	■ Surface Modeling
	■ Map Composition/Generation	■ Buffer generation
	■ Raster-Vector Conversion	■ Line-of-Sight Analysis
	■ Edgematching	■ Map Joining
29. Image Pr	ocessing Functionality:	
	■ Interactive Display	☐ Image Enhancement
	■ Geometric Rectification	☐ Spatial Filtering
	■ Image Mosaicking	☐ Fourier Analysis
	□ Radiometric Corrections	☐ Multivariate/Statistical Analysis
	■ Raster GIS Modeling	Radar Geocoding & Analysis
	☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
	☐ Filtering	Density Slicing
	Supervised Classification	Unsupervised Classification
30. Multi-use	er Capability: ♦ Yes ◊ No	
31. Expert sy	<b>/stem capability: ♦</b> Yes ◊ No	
32. Spatial ir	ndex supported: ♦ Yes ◊ No	
33. Object O	riented Architecture: ♦ Yes ◊ No	

Please describe additional features: not reported

PRODUCT NAME: GeoPilot

COMPANY	y/Organization	
C	company Name:	IntelliGIS, Inc.
C	Contact Person(s):	Diane Garey
St	treet Address:	12946 Dairy Ashford, Suite 250
C	ity, State:	Sugar Land, TX
Zi	ip, Country:	77478, USA
Pi	hone:	713-240-2700
Fa	ax:	713-240-2714
E	mail:	dianeg@igis.com
	. Type of product: ■ GIS □ Image Proces	sing 🗆 AM/FM 🗅 CAD 🗅 Other:
LICENSING	IG/PRICING	
3 4	License fee is: 3. Turnkey system availab 4. Basic (minimal) softwar	
USER BA	ASE	
6	5. Total number of license	ed users: 30
	. Number of licensed use	
•	. Hambor of hooficod doc	Asia:
		Australia:
		Europe:
		North America: 30
		South America:
8	3. Year of first installation	: <u>1994</u>
SUPPORT	/UPDATES	
9	<del>-</del>	Courses  UVideos  UTutorials  UOther:
10		able: ■ Worldwide □ Not Available □ Other:
11.		luded in License   Other:
	•	nnually ☐ Semiannually ■ Other:
13	Cost of undates: I Inc	luded in License or Maintenance Contract   Other:

DOCUMENT	TATION/INTERFACE					
44	System de symentation sysilah	Ja aar 💻 I	lordoony 🗇 🗖	la atrania Filas		
	System documentation available				D Franch	
15.	Languages available: ☐ Arabic		□ Bengali	■ English	☐ French	
	☐ Germa					
40	·	uese		☐ Spanish	☐ Other:	
	Online help: ■ Basic □ Contex					
17.	User interface: ☐ Command				us	
	☐ User-Gene	rated Macro	os 🗆 Other:			
_	1=					
I ECHNICAL	/FUNCTIONAL					
18.	Operating systems supported:	■ UNIX/X	K-Windows	PC-DOS/Windows	s □ Windows95	
				Intosh PC-OS/2		
		□ VAX/V	MS □ Other:_			
	If UNIX/X-Windows, list vendors a	and window	managers sup	oorted: SUN Micro	osystems_	
19.	Minimum hardware configurati	on: Sparc	station, 16 MB	RAM, hard disk, ta	oe drive_	
20.	Devices supported:					
	• •	INPUT		OUT	PUT	
	☐ Digitizers:					
	☐ Frame Grabbers:					
	□ Scanners:					
	□ GPS:					
	□ CD-ROM:					
	☐ Diskette:					
	□ Tape:					
	☐ Displays:					
	☐ Film Recorders:					
	■ Electrostatic Plotters:			PostScript, CO	GM formats	
	■ Pen Plotters:			PostScript, CO	GM formats	
	■ Ink Jet Printers:			PostScript, CO	GM formats	
	■ Laser Printers:			PostScript, CO	GM formats	
	☐ Others:					
21. Sou	rce code available: ◊ Yes: 🗅 C	C++ □	FORTRAN	⊒ Pascal □ Other	: <u> </u>	
	♦ No					
22. Bato	ch capability: ♦ Yes ◆ No					
23. Link	table libraries for data structure	access:	Yes: □C □	C++ 🗆 FORTRAN	<b>J</b>	
			☐ Pasc	al □ Other:	<u> </u>	
		•	No			
24. Inte	grated Data Base Management S	System: ◆	Yes ♦ No			
25. Data	a Base File Types Supported:	<b>□</b> dBase	□ Foxbase □ I	MS □ INFO □ Into	ergraph	
		☐ Lotus ☐	ı Oracle □ Par	adox 🛚 Progress		
		■ Sybase	☐ Other:			
26. Data	a Exchange Formats Supported:	Zycor				

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:				
☐ Map Digitizing	■ Map Display & Query			
Digital Map Editing	Change Map Projections			
☐ Topographical Structuring	Datum Changes			
Network Flow Analysis	Vector Overlay Analysis			
☐ Cell-based (Raster) Modeling	g □ Surface Modeling			
■ Map Composition/Generation	n 🔲 Buffer generation			
Raster-Vector Conversion	☐ Line-of-Sight Analysis			
Edgematching	☐ Map Joining			
29. Image Processing Functionality:				
☐ Interactive Display	☐ Image Enhancement			
☐ Geometric Rectification	□ Spatial Filtering			
Image Mosaicking	☐ Fourier Analysis			
Radiometric Corrections	☐ Multivariate/Statistical Analysis			
Raster GIS Modeling	Radar Geocoding & Analysis			
☐ Hardcopy Map Comp./Anno	. □ Principal Components Analysis			
☐ Filtering	<ul><li>Density Slicing</li></ul>			
Supervised Classification	Unsupervised Classification			
<b>30. Multi-user Capability: ◆</b> Yes ◊ No				
31. Expert system capability: ♦ Yes ♦ No				
32. Spatial index supported: ♦ Yes ◊ No				

33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: GeoPilot is a petroleum data browser for the enterprise wide desktop.

It enhances the company's information management strategy by allowing users throughout the organization to spatially retrieve, visualize, query, interpret and model data.

PRODUCT NAME: Geo/SQL R4.2

COMPAN	NY/ORGANIZATION			
Jami Al	5			
(	Company Name:	Geo/SQL Corporation		
	Contact Person(s):	Jim Franklin or Ally Bailey		
	Street Address:	9035 Wadsworth Pkwy, Suite 3300		
	City, State:	Broomfield, CO		
	Zip, Country:	80021-4541, USA		
F	Phone:	303-940-9266		
F	Fax:	303-940-9576		
E	Email:	sales@g5.com		
	Type of product:     GIS □ Image Proces  NG/PRICING	sing 🛘 AM/FM 🗘 CAD 🗘 Other:		
LICENSII	NO/I KICING			
;	License fee is: 3. Turnkey system availak 4. Basic (minimal) softwar			
User B	ASE			
	6. Total number of license			
	7. Number of licensed use	•		
		Asia: <u>10</u> Australia: 5		
		Europe: 70		
		North America: 800		
		South America: 15		
;	8. Year of first installation			
Support/Updates				
20.101				
9	9. Training available: ■ (	Courses □ Videos ■ Tutorials □ Other:		
10	0. Software support availa	able: ■ Worldwide □ Not Available □ Other:		
1	1. Cost of support:  Inc	uded in License ■ Other: ≤ 15% (varies with software purchased		
1:	2. Software updates: ■ A	nnually 🛘 Semiannually 🗘 Other: <u>Generally</u>		
1:	3 Cost of undates: ■ Inc	luded in License or Maintenance Contract D Other:		

DOCUMEN <sup>-</sup>	DOCUMENTATION/INTERFACE					
1.1	System documentation availab	lo as: ■ H	ardcopy D E	lectronic Files		
	=				■ Franch	
15.	Languages available: ☐ Arabic		□ Bengali	•	■ French	
	□ Germar		□ Hindi	■ Japanese	☐ Mandarin	
	_	iese		•	☐ Other:	
	Online help: ■ Basic □ Contex					
17.	<b>17.</b> User interface: ■ Command Line ■ Menus ■ User-Customizable Menus					
	■ User-Gene	rated Macro	s 🗆 Other:			
TECHNICAL	L/FUNCTIONAL					
18.	Operating systems supported:	■ UNIX/X	C-Windows ■	PC-DOS/Windows	■ Windows95	
		■ Windov	vs/NT □ Mac	Intosh □ PC-OS/2	□ OS/2 WARP	
		□ VAX/VI	MS □ Other:			
	If UNIX/X-Windows, list vendors a	and window	managers sup	ported: SunOS/So	laris (open windows)	
19.			-			
	RAM.					
20.						
20.	Devices supported.	INPUT		OUT	DIIT	
	■ Distingue: ACAD accompanded	_		001	PUI	
	■ Digitizers: ACAD - supported					
	☐ Frame Grabbers: 3rd party					
	□ Scanners: NA		·			
	GPS: NA					
	□ CD-ROM: NA					
	☐ Diskette: NA					
	□ Tape: <u>NA</u>					
	☐ Displays:			<u>NA</u>		<del></del>
	☐ Film Recorders:			_ NA		
	□ Electrostatic Plotters:			ACAD support	ed	
	□ Pen Plotters:			_AC	AD supported	
	☐ Ink Jet Printers:			ACAD support	<u>ed</u>	
	□ Laser Printers:			_AC	AD supported	
	☐ Others:					
21. Sou	ırce code available: ◇ Yes: 🛭 C	□ C++ □	FORTRAN	□ Pascal □ Other:		
	◆ No					
22. Bat	ch capability: ♦ Yes ◇ No					
23. Lini	kable libraries for data structure	access: ♦	Yes: ■ C	IC++ □ FORTRAN	l	
			☐ Pasc	al □ Other:	<u>_</u>	
		$\Diamond$	No			
24. Inte	grated Data Base Management S	System: ♦ \	∕es ◊ No			
	a Base File Types Supported:	=		MS ■ INFO □ Inte	ergraph	
_3 4.	, p = 0 apportour			adox ■ Progress		
		■ Sybase		adox = 1 logicos		
		- Cybase	- Ouici.			

26. Data Exchange Formats Supported: <u>DWG, DXF, GXP, ARC/Info Generate</u>

27. If GIS Product: ■ Vector ⊔ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
□ Network Flow Analysis	■ Vector Overlay Analysis
☐ Cell-based (Raster) Modeling	■ Surface Modeling
☐ Map Composition/Generation	■ Buffer generation
☐ Raster-Vector Conversion	☐ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
☐ Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
□ Radiometric Corrections	☐ Multivariate/Statistical Analysis
☐ Raster GIS Modeling	☐ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	☐ Principal Components Analysis
☐ Filtering	☐ Density Slicing
☐ Supervised Classification	☐ Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ◊ Yes ◊ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	
20. 20jest 21101100 / 11011100 tal. 0. 7 100 / 110	

Please describe additional features: Geo/SQL is a sophisticated, open and easy-to-use GIS/mapping system that combines a seamless, multi-user spatial database with the power of SQL and the ease-of-use of AutoCAD. It can be used standalone and in conjunction with other industry standard software to provide complete GIS functionality, including data collection, data management, coordinate geometry, cartographic transformation, spatial overlay, statistical analysis, network analysis, raster to vector integration, reporting, etc.

PRODUCT NAME: GIS base

COMPAN	y/Organization		
С	Company Name:	Tekla Oy	
C	Contact Person(s):	Risto Sajaniemi	
S	Street Address:	Koronakatu 1	
C	City, State:	02210 Espoo	
Z	ip, Country:	Finland	
P	Phone:	358-0-8879500	
F	ax:	358-0-8039489	
E	imail:	rs@tekla.fi	
	I. Type of product:  ■ GIS □ Image Proces	ssing □ AM/FM □ CAD ■ Other: 4th GL for GIS	
LICENSIN	IG/PRICING		
3	License fee is:  3. Turnkey system availal  4. Basic (minimal) softwar		
USER BA	ASE		
6	6. Total number of license	ed users: >1000	
	7. Number of licensed use		
		Asia: <100	
		Australia:	
		Europe: >1000	
		North America: >100%	
		South America:	
8	3. Year of first installation	: <u>1989</u>	
SUPPORT	T/UPDATES		
9	_	Courses □ Videos ■ Tutorials □ Other:	
10		able: ☐ Worldwide ☐ Not Available ■ Other: <u>Europe</u>	
11	I. Cost of support:  Inc	luded in License ■ Other: requires maintenance agreement	
12	2. Software updates: ☐ A	nnually □ Semiannually ■ Other: <u>as agreed</u>	
13	Cost of updates: ■ Included in License or Maintenance Contract □ Other:		

DOCUMEN.	Documentation/Interface				
	System documentation availab				
15.	<b>Languages available:</b> □ Arabic		□ Bengali	■ English	☐ French
	☐ German		☐ Hindi	□ Japanese	□ Mandarin
	☐ Portugu	uese	☐ Russian	□ Spanish	☐ Other:_
16.	Online help: ☐ Basic ☐ Contex	xt Sensitive	☐ Hypertext	□ N/A	
17.	User interface: ☐ Command	Line 🗆 Me	enus 🗆 User-	Customizable Menu	IS
	User-Gene	rated Macro	os ■ Other:	Motif or Windows G	<u>IUI</u>
TECHNICAL	L/FUNCTIONAL				
18.	Operating systems supported:				
				Intosh ☐ PC-OS/2	□ OS/2 WARP
			MS □ Other:_		
	If UNIX/X-Windows, list vendors a				IBM, SUN / MWM
19.	<b>3</b>	on: <u>depen</u>	ds on application	<u>on</u>	
20.	Devices supported:				
		INPUT		OUTI	PUT
	■ Digitizers: several				
	☐ Frame Grabbers:				
	Scanners: several				
	■ GPS: several				
	■ CD-ROM:				
	■ Diskette: all supported by hw				
	■ Tape: all supported by hw				
	■ Displays:			all s	supported by hw
	☐ Film Recorders:				
	■ Electrostatic Plotters:			several	
	■ Pen Plotters:			sev	eral
	■ Ink Jet Printers:			several	
	■ Laser Printers:			sev	eral
	☐ Others:				
21. Sou	ırce code available: ◇ Yes: 🗅 C	C++ □	FORTRAN	□ Pascal □ Other:	
	◆ No				
22. Bat	ch capability: ♦ Yes ◇ No				
23. Lini	kable libraries for data structure	access: ◆	Yes: ■C	C++ ☐ FORTRAN	I
			☐ Pasc	al □ Other:	_
		$\Diamond$	No		
24. Inte	grated Data Base Management S	System: ♦ Y	′es ♦ No		
25. Data	a Base File Types Supported:	□ dBase □	⊒ Foxbase □ I	MS □ INFO □ Inte	rgraph
		□ Lotus ■	l Oracle □ Par	adox 🛘 Progress	
		■ Sybase	Other: any	full function RDBM	<u>S</u>

26. Data Exchange Formats Supported: DXF, DGN, TIFF, etc.

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
■ Cell-based (Raster) Modeling	□ Surface Modeling
■ Map Composition/Generation	□ Buffer generation
Raster-Vector Conversion	■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
□ Interactive Display	☐ Image Enhancement
Geometric Rectification	☐ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	□ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ◆ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	

Please describe additional features: GISbase is a registered trademark of Tekla Oy. GISbase is a complete tool set for implementing GIS applications.

PRODUCT NAME: GisPlus

Сомря	ANY/	ORGANIZATION			
	Cor	mpany Name:	Caliper Corporation		
	Cor	ntact Person(s):	Graham Barrowman		
	Stre	eet Address:	1172 Beacon Street		
	City	/, State:	Newton, MA		
	Zip	, Country:	02161, USA		
	Pho	one:	617-527-4700		
	Fax	::	617-527-5113		
	Em	ail:	graham@caliper.com		
		Time of anothers			
	1.	Type of product:	ssing □ AM/FM □ CAD □ Other:		
		GIS Gilliage Floces	SSING LANVIPRI LICAD LICHEL.		
LICENS	SING/	Pricing			
	2.	Is the product public do	omain <i>or</i> commercial?		
		◆ Commercial Proc	duct		
		=	User 🗆 System 🗅 Site 🗅 Other:		
		License fee is: ■ One Time Charge □ Other Charge:			
	3.	3. Turnkey system available (bundled hardware & software): ◆ Yes ◊ No			
	4.				
	<b>5</b> .	Complete (fully capable	e) software system cost: \$2995		
USER BASE					
	6.	Total number of license	ed users: N/A		
		Number of licensed use			
			Asia: N/A		
			Australia: N/A		
			Europe: N/A		
			North America: N/A		
			South America: N/A		
	8.	Year of first installation	: <u>1989</u>		
SUPPO	SUPPORT/UPDATES				
	_				
	9.	<del>-</del>	Courses ☐ Videos ■ Tutorials ☐ Other:		
			able: ■ Worldwide □ Not Available □ Other:		
	11.		luded in License ■ Other: annual maintenance fee		
	12.		nnually □ Semiannually ■ Other:		
	12	Cost of undates:	Nuded in License or Maintenance Contract D Other:		

14.	System documentation availabl	e as: ■ Hardcopy □	Electronic Files	
	Languages available:   Arabic	□ Bengali		☐ French
	☐ Germar	n 🗀 Hindi	☐ Japanese	☐ Mandarin
	☐ Portugu	iese 🔲 Russian	☐ Spanish	☐ Other:
16.	Online help: ☐ Basic ☐ Context			
	User interface: ☐ Command L			us
	☐ User-Gener	ated Macros ■ Other	: toolbar/toolbox	
TECHNICAL	/Functional			
18.	Operating systems supported:	■ UNIX/X-Windows	■ PC-DOS/Windows	s □ Windows95
		□ Windows/NT □ M	acIntosh 🗆 PC-OS/2	2 □ OS/2 WARP
		□ VAX/VMS □ Othe		
	Minimum hardware configuration	n: <u>80486, 8 MB RAM</u>	, CD-ROM drive	
20.	Devices supported:			
		INPUT	OUT	PUT
	■ Digitizers: Wintab compliant			
	☐ Frame Grabbers:			
	Scanners: Windows compliant			
	■ GPS: Trimble mobile GPS			
	■ CD-ROM:			
	■ Diskette:			
	■ Tape:			
	■ Displays:		<u>hig</u>	h resolution
	☐ Film Recorders:			
	■ Electrostatic Plotters:			
	■ Pen Plotters:		<u>any</u>	Windows compliant output device
	■ Ink Jet Printers:			
	Laser Printers:			
	☐ Others:			
21. Sou	rce code available: ◊ Yes: ☐ C	☐ C++ ☐ FORTRAN	I □ Pascal □ Other	:
	◆ No			
22. Bato	ch capability: ♦ Yes ◊ No			
23. Link	cable libraries for data structure a	access: ♦ Yes: □ C	□ C++ □ FORTRAN	N
		□ Pa	ascal 🗆 Other:	<u></u>
		♦ No		
24. Inte	grated Data Base Management S	ystem: ♦ Yes ◇ No		
25. Data	a Base File Types Supported:	■ dBase ■ Foxbase	□ IMS □ INFO □ Inte	ergraph
		■ Lotus ■ Oracle ■ F	Paradox 🛚 Progress	
		■ Sybase ■ Other: a	_	OBMS_
26. Data	a Exchange Formats Supported:	<u> </u>		
	IS Product: ■ Vector ■ Raster			
	Functionality:			

DOCUMENTATION/INTERFACE

	■ Map Digitizing	■ Map Display & Query
	■ Digital Map Editing	■ Change Map Projections
	■ Topographical Structuring	■ Datum Changes
	■ Network Flow Analysis	■ Vector Overlay Analysis
	☐ Cell-based (Raster) Modeling	■ Surface Modeling
	■ Map Composition/Generation	■ Buffer generation
	□ Raster-Vector Conversion	■ Line-of-Sight Analysis
	□ Edgematching	☐ Map Joining
29. Image Pr	ocessing Functionality:	
	☐ Interactive Display	☐ Image Enhancement
	Geometric Rectification	□ Spatial Filtering
	■ Image Mosaicking	☐ Fourier Analysis
	Radiometric Corrections	Multivariate/Statistical Analysis
	Raster GIS Modeling	Radar Geocoding & Analysis
	■ Hardcopy Map Comp./Anno.	Principal Components Analysis
	☐ Filtering	Density Slicing
	Supervised Classification	Unsupervised Classification
30. Multi-use	er Capability: ♦ Yes ◊ No	
31. Expert sy	<b>/stem capability:</b> ♦ Yes ♦ No	
32. Spatial ir	ndex supported: ♦ Yes ◊ No	

33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: GIS development kit - supports the creation of map server applications, macro programs and custom user interfaces. Support for OLE 2.0 and open database connectivity (ODBC).

PRODUCT NAME: GOTHIC ADE

COMPAN	IY/ORGANIZATION				
	Company Name:				
	Contact Person(s):				
8	Street Address:	Cambridge Science Park, Milton Road			
C	City, State:	Cambridge			
Z	Zip, Country:	CB4 4FY, UK			
	Phone:				
	ax:				
E	Email:	nickge@lsl.co.uk			
	1. Type of product:				
		essing □ AM/FM □ CAD □ Other:			
	ie/Drienie				
LICENSIN	NG/PRICING				
	N	lamata ana ammanatal0			
	2. Is the product public d				
	◆ Commercial Pro				
		■ User ■ System ■ Site ■ Other: runtime licenses when sold on			
		■ One Time Charge ■ Other Charge: royalties			
;		able (bundled hardware & software): ♦ Yes ♦ No			
4	4. Basic (minimal) software system cost: POA				
;	5. Complete (fully capable) software system cost: POA				
USER B	ASE				
(	6. Total number of licens	sed users: not reported			
7	7. Number of licensed us	sers by continent: Africa:			
		Asia:			
		Australia:			
		Europe:			
		North America:			
		South America:			
8	3. Year of first installation	n: not reported			
SUPPOR'	T/UPDATES				
9	9. Training available:	Courses □ Videos ■ Tutorials ■ Other: <u>consultancy/training</u>			
10	<del>-</del>	lable: ■ Worldwide □ Not Available □ Other:			
1′		cluded in License   Other:			
12		Annually □ Semiannually ■ Other: <u>as available</u>			
		acluded in License or Maintenance Contract   Other:			
- 1	. 3000 01 apaatos. <b>=</b> 111	Stades in Liestico di Maintonano Contract			

OCUMEN.	TATION/INTERFACE			
	System documentation available as	• •		
15.	Languages available: ☐ Arabic	□ Bengali	■ English	☐ French
	□ German	☐ Hindi	□ Japanese	□ Mandarin
	☐ Portuguese	□ Russian	□ Spanish	■ Other: <u>Hangul -</u>
				suitable for localising
16.	Online help: ☐ Basic ☐ Context Se	nsitive 🗆 Hypertext	: ■ N/A	
17.	User interface: ☐ Command Line	■ Menus ■ Use	r-Customizable Men	us
	■ User-Generated	Macros ■ Other:	user development	_
ECHNICAL	L/FUNCTIONAL			
18.	Operating systems supported:			
		Windows/NT □ Ma		2 □ OS/2 WARP
		VAX/VMS ☐ Other		
	If UNIX/X-Windows, list vendors and v	•	•	
19.	Minimum hardware configuration:_	32 MB and 100 MB	swap space. Recor	mmend 64 MB and
	200 MB swap space.			
20.	Devices supported:			
		PUT	OUT	PUT
	■ Digitizers: <u>ALTEK AC40, Calcomp</u>			
	others by user customizat	on or developed		
	to order.			
	☐ Frame Grabbers:			
	Scanners: as supported by the pla			
	■ GPS: as supported by the platform	· ·		
	user customization to inte	-		
	■ CD-ROM: as supported by the pla			
	Diskette: as supported by the platf			
	■ Tape: as supported by the platform	<u>n</u>		
	Displays:		<u>up 1</u>	to 24 bit color
	☐ Film Recorders:			
	■ Electrostatic Plotters:			orted by the platform
	Pen Plotters:			ny - as supported by the platform
	Ink Jet Printers:		as supported b	· · · · · ·
	Laser Printers:		_as s	supported by the platform
04.0	Others:			
21. Sou	rce code available: ♦ Yes: ■ C ■	C++ UFORTRAN	☐ Pascal ☐ Other	: <u> </u>
	♦ No			
22. Bat	ch capability: ♦ Yes ♦ No			

24. Integrated Data Base Management System: ♦ Yes ◇ No

23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN

♦ No

☐ Pascal ☐ Other: through toolkit use

25. Data Base File Types Supported: ☐ dBa	ase □ Foxbase □ IMS □ INFO □ Intergraph
□ Lot	us □ Oracle □ Paradox □ Progress
□ Syt	pase □ Other: <u>INGRES</u>
26. Data Exchange Formats Supported: Lots	_
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
■ Cell-based (Raster) Modeling	□ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
■ Raster-Vector Conversion	■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	☐ Image Enhancement
■ Geometric Rectification	☐ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	Principal Components Analysis
□ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ◆ Yes ◊ No	

Please describe additional features: GOTHIC ADE is a GIS development environment. Any of the supported features could be developed by VARS and existing features could be enhanced by VARS.

PRODUCT NAME: GRADIS - GIS

COMPANY	/ORGANIZATION	
Co	ompany Name:	Strassle Informations Systeme AG
Co	ontact Person(s):	Dr. Peter Ladstatter
Str	reet Address:	Kanalstrasse 33
Cit	ty, State:	8152 Glattbrugg
Zip	p, Country:	Switzerland
Ph	none:	41-1-828-81-11
Fax	x:	41-1-828-82-12
Em	nail:	lad@sti.ch
1.	Type of product:  ■ GIS □ Image Proces	ssing ■ AM/FM □ CAD □ Other:
LICENSING	5/F KICING	
3. 4.	License fee is: I Turnkey system availab Basic (minimal) softwar	
USER BAS	SE	
USER BAS	SE	
	SE  Total number of license	ed users: 120
	Total number of license	
6.	Total number of license	ers by continent: Africa:
6.	Total number of license	
6.	Total number of license	ers by continent: Africa: Asia:
6.	Total number of license	Asia:Australia:
6.	Total number of license	Africa: Asia: Australia: Europe:120
6. 7.	Total number of license	Africa:
6. 7.	Total number of license Number of licensed use	Africa:
6. 7.	Total number of license Number of licensed use Year of first installation	Africa:
6. 7. 8. SUPPORT/U	Total number of license Number of licensed use Year of first installation	Africa:
6. 7. 8. SUPPORT/U	Total number of license Number of licensed use  Year of first installation  UPDATES  Training available:	Africa:
6. 7. 8. SUPPORT/U	Total number of license Number of licensed use  Year of first installation  UPDATES  Training available:  Software support availa	Africa:
6. 7. 8. SUPPORT/U 9. 10. 11.	Total number of license Number of licensed use  Year of first installation  UPDATES  Training available: ■ C Software support availa Cost of support: □ Incl	Africa:

DOCUMEN	IA HON/IN I ERFACE			
14	System documentation availab	le as: ■ Hardcony ■	I Flectronic Files	
	Languages available: ☐ Arabic	• •		□ French
10.	■ Germa	· ·	-	☐ Mandarin
	□ Portug		•	■ Other: Finnish
16	Online help: ■ Basic ■ Conte		· ·	= Guior. <u>- ministr</u>
	User interface: ■ Command			IIC
17.		erated Macros   Othe		us
	<b>2</b> 0301 00110	rated Macros 🚨 Othe	· · · · · · · · · · · · · · · · · · ·	
TECHNICAL	L/FUNCTIONAL			
TEOTIMOA	DI GROTIONAL			
18.	Operating systems supported:			
			lacIntosh □ PC-OS/2	2 □ OS/2 WARP
		□ VAX/VMS □ Othe		
	If UNIX/X-Windows, list vendors a			<u>Motif</u>
	Minimum hardware configurati	on: 64 MB memory, 1	GB disk	
20.	Devices supported:			
		INPUT	OUT	PUT
	■ Digitizers: Aristo			
	☐ Frame Grabbers:			
	Scanners:			
	□ GPS:			
	□ CD-ROM:			
	Diskette:			
	■ Tape:			
	☐ Displays:			
	☐ Film Recorders:			
	■ Electrostatic Plotters:			
	■ Pen Plotters:			
	<ul><li>Ink Jet Printers:</li><li>Laser Printers:</li></ul>			
	■ Caser Frinters.  □ Others:		-	
21 Sou	urce code available: ♦ Yes: 🗆 C	· □ C++ □ FORTRAN	—— J Pascal □ Other	
21.000	♦ No	, don droknou	• I ascar I other	·
22 Bat	ch capability: ♦ Yes ♦ No			
	kable libraries for data structure	access. Ves. D.C		.I
23. LIIII	Rable libraries for data structure			
		◆ No	300ai <b>2</b> 0tiloi	
24 Inte	egrated Data Base Management S			
	a Base File Types Supported:	☐ dBase ☐ Foxbase	□ IMS □ INFO □ Into	ergraph
20. Dat	a zaco i no Types cupported.	☐ Lotus ■ Oracle ☐ I		o.g.apri
		☐ Sybase ☐ Other:	_	
		- Oybaso - Olliel		

26. Data Exchange Formats Supported: on demand

27. If GIS Product: ■ Vector ■ Raster

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- □ Edgematching

#### 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- ☐ Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- □ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - Unsupervised Classification

Please describe additional features: Fully integrated relational DBMS interactive raster/vector conversion, on-screen digitizing, seamless geographic database, extended data dictionary for spatial modelling.

# PRODUCT NAME: GRASS (Geographic Resources Analysis Support System)

COMPANY/	ORGANIZATION		
Co	mpany Name:		uction Engineering Research Laboratories); or
			ote Sensing Center
Со	ntact Person(s):		
			<u>y</u>
Str	eet Address:	• •	D 15 : 11B
0:4	01-1		Dept. Environmental Resources
Cit	y, State:		L NI
7in	Country	• •	k, NJ JSA
Ζιμ	o, Country:	• •	JOA
Ph	one:	• •	
	x:	` '	
	nail:	• •	
1.	Type of product:		
		Processing	□ CAD □ Other:
LICENSING	/PRICING		
2.	Is the product pu	blic domain <i>or</i> commerci	al?
	◆ Public Don	nain:	
			ion: available FTP: moon.cecer.army.mil
3.			are & software): ♦ Yes ♦ No
4.	•	oftware system cost: no	
5.	Complete (fully c	apable) software system	cost: none
USER BAS	E		
6.	Total number of I	icensed users: 3000	
7.	Number of licens	ed users by continent:	Africa: 10
			Asia: 20
			Australia: 50
			Europe: 400
			North America: 2500
			South America: 20
8.	Year of first insta	llation: 1990	
SUPPORT/U	UPDATES		
	_		■ Tutorials □ Other:
10.			□ Not Available □ Other:
11.	Cost of support:	☐ Included in License ☐	Other: None

14.	Software updates: ■ Annually	- Semiam	lually $\Box$ Office	·		
13.	Cost of updates:  Included in	License or I	Maintenance C	Contract ■ Other:_	None	
DOCUMEN:	TATION/INTERFACE					
DOCOMEN	TATION/INTERIACE					
14.	System documentation availal	ole as: ■ H	lardcopy ■ E	Electronic Files		
	Languages available: ☐ Arabid		□ Bengali	■ English	■ French	
	□ Germa		□ Hindi	☐ Japanese	☐ Mandarin	
	□ Portug	guese	☐ Russian	☐ Spanish	☐ Other:	
16.	Online help: ■ Basic □ Conte	•				
	User interface: ■ Command				us	
	_ 333. 33					
Trouble	/Functional					
IECHNICAI	/Functional					
18.	Operating systems supported:	: ■ UNIX/X	K-Windows □	PC-DOS/Windows	☐ Windows95	
				Intosh PC-OS/2		
				LINUX for PCs		
	If UNIX/X-Windows, list vendors				N, Motif, X-Windows	
19.	Minimum hardware configurat		-	· ·		
	on a PC box.			-	<u> </u>	
20.	Devices supported:					
		INPUT		OUT	PUT	
	■ Digitizers: Several	INPUT		OUT	PUT	
	■ Digitizers: <u>Several</u> ■ Frame Grabbers: GRASS an			ОИТ	PUT	
	■ Frame Grabbers: GRASS an	d UNIX XV	<u>.</u>	оит	PUT	
	■ Frame Grabbers: GRASS an ■ Scanners: GRASS	nd UNIX XV		оит	PUT	
	<ul><li>■ Frame Grabbers: GRASS an</li><li>■ Scanners: GRASS</li><li>■ GPS: Trimble</li></ul>	id UNIX XV		оит	PUT	
	<ul> <li>■ Frame Grabbers: GRASS an</li> <li>■ Scanners: GRASS</li> <li>■ GPS: Trimble</li> <li>■ CD-ROM: Yes</li> </ul>	d UNIX XV		оит	PUT	
	<ul><li>■ Frame Grabbers: GRASS an</li><li>■ Scanners: GRASS</li><li>■ GPS: Trimble</li></ul>	nd UNIX XV		оит	PUT	
	<ul> <li>■ Frame Grabbers: GRASS an</li> <li>■ Scanners: GRASS</li> <li>■ GPS: Trimble</li> <li>■ CD-ROM: Yes</li> <li>■ Diskette: Yes</li> </ul>	nd UNIX XV			PUT  UNIX X-Windows	
	<ul> <li>Frame Grabbers: <u>GRASS and GRASS and GRASS</u></li> <li>■ GPS: <u>Trimble</u></li> <li>■ CD-ROM: <u>Yes</u></li> <li>■ Diskette: <u>Yes</u></li> <li>■ Tape: <u>Yes</u></li> </ul>	nd UNIX XV				
	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays:	nd UNIX XV		_A <u>II</u>		
	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders:	nd UNIX XV		All  Versatec, HP,	UNIX X-Windows	
	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters:	nd UNIX XV		All Versatec, HP, Ca	UNIX X-Windows all PostScript	
	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Pen Plotters:	nd UNIX XV		All_ 	UNIX X-Windows  all PostScript Icomp, others	
	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers:	nd UNIX XV		All_ 	UNIX X-Windows  all PostScript Icomp, others	
<b>21.</b> Sou	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers:	d UNIX XV		All	UNIX X-Windows  all PostScript Icomp, others stScript	
21. Sou	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others:	d UNIX XV		All	UNIX X-Windows  all PostScript Icomp, others stScript	
	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others:	d UNIX XV		All	UNIX X-Windows  all PostScript Icomp, others stScript	
22. Bat	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Ince code available: ◆ Yes: Ince	C C++ C	□ FORTRAN	All	UNIX X-Windows  all PostScript Icomp, others stScript	
22. Bat	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Others: No	C C++ C	JFORTRAN Yes: ■C	All	UNIX X-Windows  all PostScript lcomp, others  stScript	
22. Bat	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Others: No	C C++	JFORTRAN Yes: ■C	All	UNIX X-Windows  all PostScript lcomp, others  stScript	
22. Bat 23. Lini	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Others: No	c □ C++ □	FORTRAN  Yes: ■ C □ □ Pasc	All	UNIX X-Windows  all PostScript Icomp, others stScript	
22. Bate 23. Linl 24. Inte	■ Frame Grabbers: GRASS and Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Others: No ch capability: ♦ Yes ♦ No cable libraries for data structure	c	FORTRAN  Yes: ■ C □ □ Pasc No Yes ♦ No no	All	UNIX X-Windows  all PostScript lcomp, others  stScript	

- ☐ Sybase ☐ Other: all SQL and specifically Informix
- 26. Data Exchange Formats Supported: ARC, ASCII, DXF, USGS, DLG, SPEGETTI
- 27. If GIS Product: Vector Raster
- 28. GIS Functionality:
  - Map Digitizing
  - Digital Map Editing
  - Topographical Structuring
  - Network Flow Analysis
  - Cell-based (Raster) Modeling
  - Map Composition/Generation
  - Raster-Vector Conversion
  - Edgematching
- 29. Image Processing Functionality:
  - Interactive Display
  - Geometric Rectification
  - Image Mosaicking
  - □ Radiometric Corrections
  - Raster GIS Modeling
  - Hardcopy Map Comp./Anno.
  - Filtering
  - Supervised Classification
- 30. Multi-user Capability: ♦ Yes ◊ No
- 31. Expert system capability: ♦ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: Integrated GIS/Image Processing, public domain. NOTE: Releases have been done through CERL and FTP site. Information is done through Rutgers University.

GRASS INFO HTML: http://www.cecer.army.mil/GRASS.main.html

GLOBAL DATA HTML: http://www.cecer.army.mil/WWWDEMO/global-apps/global

## PRODUCT NAME: GRASS (Geographic Resources Analysis Support System)

COMPANY	ORGANIZATION		
Co	mpany Name:	(1) CERL: Constr	uction Engineering Research Laboratories); or
		(2) Rutgers: Rem	ote Sensing Center
Co	ntact Person(s):	(1) None	<u> </u>
	-		у
Str	reet Address:	(1) P.O. Box 4005	<u>;                                    </u>
	-		Dept. Environmental Resources
Cit	ty, State:	· · · · · · · ·	
	-	• •	k, NJ
Zip	o, Country:	,	<u>JSA</u>
	-	• •	
	one:	, ,	
	x:	• •	
Em	nail:	not reported	
_			
1.	Type of product:		
	■ GIS ■ Image	Processing	□ CAD □ Other:
LICENSING	/PRICING		
2.	Is the product pu	blic domain <i>or</i> commerc	ial?
	• Public Don		
	Costs for	Distribution/Documenta	tion: _available FTP: moon.cecer.armv.mil_
3.			rare & software): ♦ Yes ♦ No
4.		oftware system cost: n	•
5.	· · · · · · · · · · · · · · · · · · ·	apable) software system	
USER BAS	SE .		
6.	Total number of I	icensed users: 3000	
7.	Number of licens	ed users by continent:	Africa: 10
		-	Asia: 20
			Australia: 50
			Europe: 400
			North America: 2500
			South America: 20
8.	Year of first insta	llation: 1990	
SUPPORT/	UPDATES		
_	Tartala		■ Totaciala D Others
	_		■ Tutorials □ Other:
10.			□ Not Available □ Other:
11.	Cost of support:	☐ Included in License ☐	Other: None

12.						
13.	Cost of updates:  Included in	n License or N	/laintenance (	Contract ■ Other:_	None	
DOCUMEN <sup>3</sup>	TATION/INTERFACE					
1.1	System documentation availal	blo as: ■ ⊔	ardeony <b>=</b> F	loctronic Filos		
	Languages available:   Arabi		ardcopy <b>■</b> E □ Bengali	English	■ French	
13.	☐ Germ		☐ Hindi	■ Lingiisii □ Japanese	■ French  Mandarin	
			□ Russian	•	☐ Other:	
16	Online help: ■ Basic □ Conte	_		· ·	d Other.	
	User interface: ■ Command				ue.	
17.				-Custoffilzable Men	us	
	■ 03e1-0e11	crated Macro.	ouner			
TECHNICAL	L/FUNCTIONAL					
IECHNICA	LIFUNCTIONAL					
18.	Operating systems supported	: ■ UNIX/X	-Windows 🗆	PC-DOS/Windows	s □ Windows95	
		■ Window	rs/NT □ Mad	Intosh 🗆 PC-OS/2	2 □ OS/2 WARP	
		□ VAX/VN	/IS ☐ Other:	LINUX for PCs		
	If UNIX/X-Windows, list vendors	and window r	nanagers sup	ported: Open WII	N, Motif, X-Windows	
19.	Minimum hardware configurat	ion: UNIX v	vorkstation or	PC box running LIN	NUX or Windows-NT	
	on a PC box.					
20.	Devices supported:					
	• •	INPUT		OUT	DUT	
		INFUI		OUT	PUI	
	■ Digitizers: Several	INFUI		001	PUI	
	■ Digitizers: <u>Several</u> ■ Frame Grabbers: GRASS ar			001	PUI	
	■ Frame Grabbers: GRASS ar			001	POI	
	■ Frame Grabbers: GRASS ar ■ Scanners: GRASS	nd UNIX XV		001	POI	
	■ Frame Grabbers: GRASS ar	nd UNIX XV		001	POI	
	<ul><li>■ Frame Grabbers: GRASS ar</li><li>■ Scanners: GRASS</li><li>■ GPS: Trimble</li></ul>	nd UNIX XV		001	POI	
	<ul> <li>■ Frame Grabbers: GRASS ar</li> <li>■ Scanners: GRASS</li> <li>■ GPS: Trimble</li> <li>■ CD-ROM: Yes</li> </ul>	nd UNIX XV		001	POI	
	<ul> <li>■ Frame Grabbers: GRASS ar</li> <li>■ Scanners: GRASS</li> <li>■ GPS: Trimble</li> <li>■ CD-ROM: Yes</li> <li>■ Diskette: Yes</li> </ul>	nd UNIX XV			UNIX X-Windows	
	<ul> <li>Frame Grabbers: <u>GRASS ar</u></li> <li>Scanners: <u>GRASS</u></li> <li>GPS: <u>Trimble</u></li> <li>CD-ROM: <u>Yes</u></li> <li>Diskette: <u>Yes</u></li> <li>Tape: <u>Yes</u></li> </ul>	nd UNIX XV				
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS  ■ GPS: Trimble  ■ CD-ROM: Yes  ■ Diskette: Yes  ■ Tape: Yes  ■ Displays:	nd UNIX XV		_ <u>All</u>		
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS  ■ GPS: Trimble  ■ CD-ROM: Yes  ■ Diskette: Yes  ■ Tape: Yes  ■ Displays:  □ Film Recorders:	nd UNIX XV		All	UNIX X-Windows	
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS  ■ GPS: Trimble  ■ CD-ROM: Yes  ■ Diskette: Yes  ■ Tape: Yes  ■ Displays:  □ Film Recorders:  ■ Electrostatic Plotters:	nd UNIX XV		All_ Versatec, HP, Ca	UNIX X-Windows all PostScript	
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS  ■ GPS: Trimble  ■ CD-ROM: Yes  ■ Diskette: Yes  ■ Tape: Yes  ■ Displays:  □ Film Recorders:  ■ Electrostatic Plotters:  ■ Pen Plotters:	nd UNIX XV		All	UNIX X-Windows  all PostScript Icomp, others	
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS  ■ GPS: Trimble  ■ CD-ROM: Yes  ■ Diskette: Yes  ■ Tape: Yes  ■ Displays:  □ Film Recorders:  ■ Electrostatic Plotters:  ■ Pen Plotters:  ■ Ink Jet Printers:  ■ Laser Printers:  □ Others:	nd UNIX XV		All	UNIX X-Windows  all PostScript  Icomp, others  stScript	
21. Sou	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS  ■ GPS: Trimble  ■ CD-ROM: Yes  ■ Diskette: Yes  ■ Tape: Yes  ■ Displays:  ■ Film Recorders:  ■ Electrostatic Plotters:  ■ Pen Plotters:  ■ Ink Jet Printers:  ■ Laser Printers:	nd UNIX XV		All	UNIX X-Windows  all PostScript  Icomp, others  stScript	
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Irce code available: ↑ Yes: Ince code available: ↑ Yes: In	nd UNIX XV		All	UNIX X-Windows  all PostScript  Icomp, others  stScript	
	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others:	nd UNIX XV		All	UNIX X-Windows  all PostScript  Icomp, others  stScript	
22. Bat	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Irce code available: ↑ Yes: Ince code available: ↑ Yes: In	C C++	FORTRAN	All	UNIX X-Windows  all PostScript Icomp, others stScript	
22. Bat	Frame Grabbers: GRASS ar  Scanners: GRASS  GPS: Trimble  CD-ROM: Yes  Diskette: Yes  Tape: Yes  Displays: Film Recorders: Electrostatic Plotters: Pen Plotters: Ink Jet Printers: Laser Printers: Others: Irce code available: ◆ Yes: No  ch capability: ◆ Yes ◇ No	C C++ C	FORTRAN  Yes: ■ C □ □ Pass	All	UNIX X-Windows  all PostScript Icomp. others  stScript	
22. Bat 23. Lini	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Others: □ Others: □ No  ch capability: ◆ Yes ◇ No  kable libraries for data structure	C C++ C	FORTRAN  Yes: ■ C □ □ Pase No	All	UNIX X-Windows  all PostScript Icomp, others stScript :	
22. Bat 23. Lini 24. Inte	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: Ince code available: ↑ Yes: In	C □ C++ □	FORTRAN  Yes: ■ C □ □ Pase No	All	UNIX X-Windows  all PostScript Icomp, others stScript :	
22. Bat 23. Lini 24. Inte	■ Frame Grabbers: GRASS ar  ■ Scanners: GRASS ■ GPS: Trimble ■ CD-ROM: Yes ■ Diskette: Yes ■ Tape: Yes ■ Displays: □ Film Recorders: ■ Electrostatic Plotters: ■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Others: □ Others: □ No  ch capability: ◆ Yes ◇ No  kable libraries for data structure	C □ C++ □ c access: ◆  System: ◊ Y	Yes: ■ C □ Pase No es ◆ No no	All	UNIX X-Windows  all PostScript Icomp. others  stScript	

- ☐ Sybase ☐ Other: all SQL and specifically Informix
- 26. Data Exchange Formats Supported: ARC, ASCII, DXF, USGS, DLG, SPEGETTI
- 27. If GIS Product: Vector Raster
- 28. GIS Functionality:
  - Map Digitizing
  - Digital Map Editing
  - Topographical Structuring
  - Network Flow Analysis
  - Cell-based (Raster) Modeling
  - Map Composition/Generation
  - Raster-Vector Conversion
  - Edgematching
- 29. Image Processing Functionality:
  - Interactive Display
  - Geometric Rectification
  - Image Mosaicking
  - □ Radiometric Corrections
  - Raster GIS Modeling
  - Hardcopy Map Comp./Anno.
  - Filtering
  - Supervised Classification
- 30. Multi-user Capability: ♦ Yes ◊ No
- 31. Expert system capability: ◆ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - □ Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: Integrated GIS/Image Processing, public domain. NOTE: Releases have been done through CERL and FTP site. Information is done through Rutgers University.

GRASS INFO HTML: http://www.cecer.army.mil/GRASS.main.html

GLOBAL DATA HTML: http://www.cecer.army.mil/WWWDEMO/global-apps/global

PRODUCT NAME: GWN - GIS

COMPANY	/ORGANIZATION	
Co	ompany Name:	Scientific Software Group
	· /	Susan Hardy
St	reet Address:1	11118 Sweetwood Lane
Cit	ty, State:	Dakton, VA
Zij	p, Country:2	22124, USA
Ph	none:	703-620-9214
Fa	nx:	703-620-6793
En	nail:r	not reported
1.	Type of product: ■ GIS □ Image Processi	ng 🗅 AM/FM 🗅 CAD 🗅 Other:
LICENSING	G/PRICING	
2.	Is the product public dom	nain <i>or</i> commercial?
	◆ Commercial Produ	ct
	Licensed by: ■ \	Jser ■ System ■ Site □ Other:
	License fee is: ■	One Time Charge    Other Charge:
3.	Turnkey system available	e (bundled hardware & software): ◆ Yes ◊ No
4.	Basic (minimal) software	system cost: \$4,000
<b>5</b> .	Complete (fully capable)	software system cost: \$4,000
USER BAS	SE	
6.	Total number of licensed	users: 500
7.	Number of licensed users	s by continent: Africa:
		Asia:
		Australia:
		Europe:
		North America:
		South America:
8.	Year of first installation:_	1992
SUPPORT/	/UPDATES	
9.	<del>-</del>	urses □ Videos ■ Tutorials □ Other:
10.		le: ■ Worldwide □ Not Available □ Other:
11.	Cost of support: ■ Include	ded in License
12.	Software updates: ■ Ann	ually ■ Semiannually □ Other:

13.	Cost of updates: ■ Included in License	e or Maintenance (	Contract ☐ Other:_		
DOCUMENT	FATION/INTERFACE				
14.	System documentation available as:	■ Hardcopy ■ E	lectronic Files		
	-	☐ Bengali	■ English	☐ French	
	☐ German	☐ Hindi	<del>-</del>	■ Mandarin	
	☐ Portuguese		□ Spanish		
16.	Online help: ☐ Basic ☐ Context Sens	itive 🗆 Hypertext	□ N/A		
17.	User interface: ☐ Command Line	■ Menus □ User	-Customizable Meni	us	
	User-Generated N	lacros 🛚 Other:_			
	-				
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported: ■ UNIX	X/X-Windows ■ F	C-DOS/Windows	■ Windows95	
			itosh □ PC-OS/2		
		/VMS □ Other:			
	If UNIX/X-Windows, list vendors and wind			lo, and Intergraph	
	Workstations.				
19.	Minimum hardware 386 with 8 MB RA	<u>.M_</u>			
20.	Devices supported:				
	IN	PUT		OUTPUT	
	☐ Digitizers:				
	☐ Frame Grabbers:				
	Scanners:				
	☐ GPS:				
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	□ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
	□ Others:				
21. Sou	rce code available: ◇ Yes: □ C □ C+	+ D FORTRAN	☐ Pascal ☐ Other:		
	♦ No				
	ch capability: ♦ Yes ♦ No				
23. Lini	cable libraries for data structure access				
			cal 🗅 Other:		
04 less	austed Data Dasa Managament Contamo	♦ No			
∠4. Inte	grated Data Base Management System	. ▼ res ♥ No			
25 Date	a Base File Types Supported: ■ dBa	se □ Foyhase □	IMS □ INFO ■ Inte	ergraph	
Lo. Date		us ■ Oracle □ Pa		g	
	<b>3</b> Lott		1 10g1000		

	¬ 0"						
□ Sybase □ Other:							
26. Data Exchange Formats Supported: <u>not reported</u>							
27. If GIS Product: □ Vector ■ Raster							
28. GIS Functionality:							
■ Map Digitizing	■ Map Display & Query						
■ Digital Map Editing	■ Change Map Projections						
■ Topographical Structuring	■ Datum Changes						
■ Network Flow Analysis	■ Vector Overlay Analysis						
■ Cell-based (Raster) Modeling	■ Surface Modeling						
■ Map Composition/Generation	■ Buffer generation						
■ Raster-Vector Conversion	■ Line-of-Sight Analysis						
■ Edgematching	■ Map Joining						
29. Image Processing Functionality:							
■ Interactive Display	■ Image Enhancement						
■ Geometric Rectification	■ Spatial Filtering						
■ Image Mosaicking	■ Fourier Analysis						
■ Radiometric Corrections	■ Multivariate/Statistical Analysis						
■ Raster GIS Modeling	■ Radar Geocoding & Analysis						
■ Hardcopy Map Comp./Anno.	■ Principal Components Analysis						
■ Filtering	■ Density Slicing						
■ Supervised Classification	■ Unsupervised Classification						
30. Multi-user Capability: ♦ Yes ◊ No	·						

Please describe additional features: none reported

31. Expert system capability: ◆ Yes ◊ No
32. Spatial index supported: ◆ Yes ◊ No
33. Object Oriented Architecture: ◆ Yes ◊ No

PRODUCT NAME: HDMS - Hydrogeological Data Management System

Сомра	NY/ORGANIZATION			
	Company Name: CartoLogix Corpo		ation	
	Contact Person(s):	Kenneth R. DePode	esta, Peter Nimmrichter	
	<u> </u>		den Circle, Suite 702	
	City, State: Mississauga, Ontai		io	
	Zip, Country: L5R 3K6, Canada			
	Phone:	905-568-8621		
	Fax:	905-568-8623		
	Email:	cartolgx@ftn.net		
	<ol> <li>Type of product:</li> <li>■ GIS □ Image Proces</li> </ol>	ssing □ AM/FM ■	■ CAD □ Other:	
	<b>(</b> 5)			
LICENS	ING/PRICING			
	License fee is:	duct User □ System ■ One Time Charge Die (bundled hardwa re system cost:\$1	■ Site □ Other:e  □ Other Charge:e  are & software): ◆ Yes ◊ No  5000	
USER E	BASE			
	6. Total number of license			
	7. Number of licensed use	•	Africa:	
			Asia:	
			Australia:	
			Europe:	
			North America: 1	
	8. Year of first installation		South America:	
Suppor	RT/UPDATES			
	-			
	9. Training available: ■ (	Courses 🗆 Videos	■ Tutorials □ Other:	
1	10. Software support avails	able: ■ Worldwide	☐ Not Available ☐ Other:	
1	11. Cost of support: 🗆 Inc	luded in License	Other:	
1	12. Software updates: ☐ A	nnually 🗅 Semiannu	ually ■ Other: <u>As required</u>	
1	13. Cost of updates: 🗆 Inc	cluded in License or M	Maintenance Contract ■ Other: Not core technology	

14. System documentation availab	ole as: 🔳 🖡			
15. Languages available: Arabid		□ Bengali	•	☐ French
□ Germa		☐ Hindi	•	☐ Mandarin
· · · · · · · · · · · · · · · · · · ·	•	□ Russian	•	☐ Other:
<b>16.</b> Online help: ■ Basic □ Conte				
			-Customizable Men	us
■ User-Gene	erated Macr	os ■ Other:_	<u>dialogues</u>	
INICAL/FUNCTIONAL				
18. Operating systems supported:	: UNIX/	X-Windows	PC-DOS/Windows	■ Windows95
	■ Windo	ows/NT 🗆 Mad	Intosh 🗆 PC-OS/2	2 □ OS/2 WARP
	□ VAX/V	/MS □ Other:		
19. Minimum hardware configurat	ion: <u>486/P</u>	Pentium CPU, 1	6-32 MB RAM, 1 G	B disk storage,
SVGA display				
20. Devices supported:				
	INPUT		OUT	PUT
■ Digitizers: as supported by A	utoCAD			
■ Frame Grabbers: external to	application			
■ Scanners: hardware dependent	ent			
■ GPS: external to application				
■ CD-ROM: hardware depende	ent			
■ Diskette: <u>hardware depender</u>	nt			
■ Tape: <u>hardware dependent</u>				
■ Displays:			as	supported by AutoCAD
■ Film Recorders:			hardware depe	endent
■ Electrostatic Plotters:			as supported b	oy AutoCAD
■ Pen Plotters:			* *	supported by AutoCAD
■ Ink Jet Printers:			as supported b	oy AutoCAD
■ Laser Printers:			as	supported by AutoCAD
☐ Others:				<u>-</u>
1. Source code available: ◇ Yes: □ 0	C □ C++ □	□ FORTRAN	☐ Pascal ☐ Other:	<u>:</u>
♦ No				
2. Batch capability: ♦ Yes ♦ No				
3. Linkable libraries for data structure	access:	♦ Yes: □ C ■	C++ □ FORTRAN	N
			cal 🗆 Other:	
	<	→ No		<del>_</del>
4. Integrated Data Base Management				
5. Data Base File Types Supported:	-		IMS □ INFO □ Inte	ergraph
=			radox □ Progress	· 9·-T-·
			ormix, RBase, ODB	C compliant
	<u> </u>		ATTION, INDUSOR ODDI	<u> </u>
6. Data Exchange Formats Supported	DXF			

DOCUMENTATION/INTERFACE

28. GIS Functionality	<b>y</b> :
■ Ma	ар

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

### 29. Image Processing Functionality:

- Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- □ Filtering
- □ Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ◊ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
- Line-of-Sight Analysis
  - Map Joining
  - ☐ Image Enhancement
- □ Spatial Filtering
  - ☐ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - Unsupervised Classification

Please describe additional features: AutoCAD, ADE, Spatialist, ORACLE, and QuickSURF are integrated for the management of hydrogeological graphical/tabular data in a seamless map environment. Data draw/access capabilities for spatial/attribute query, analysis and linkage to external programs such as GMS.

PRODUCT NAME: IDRISI

COMPANY	Company/Organization						
	· ·	The Clark Labs - IDRISI Project					
	ontact Person(s):	Michele Fulk					
St	reet Address:	Clark University - 950 Main St.					
Cit	-	Worcester, MA					
_	· · · · · · · · · · · · · · · · · · ·	01610-1477, USA					
Ph	none:	508-793-7526					
Fa	ıx:	508-793-8842					
En	mail:	idrisi@vax.clarku.edu					
1.		ing □ AM/FM □ CAD □ Other:					
LICENSING	3/1 KICING						
3.	2. Is the product public domain or commercial?						
5.	Complete (fully capable)	software system cost: \$990, \$495					
USER BAS	SE						
6	Total number of license	dusars: 15000					
	Number of licensed use						
7.	Number of licensed use	•					
		Asia: <u>1000</u> Australia: 2000					
		Europe: 3500					
		North America: 7500					
		South America: 500					
8.	Year of first installation:						
Support/Updates							
JUL FUR II	OI DAILS						
9.	Training available:	ourses □ Videos ■ Tutorials □ Other: <u>Workbooks</u>					
10.	•	ble: ■ Worldwide □ Not Available □ Other:					
11.		uded in License ■ Other: \$75 per year					
12.		nually Semiannually Other:					
12.		uded in License or Maintenance Contract.   Other: at material cost					

ıo.	System documentation available Languages available:   Arabic	le as: ■ Hardcopy ■ 1 □ Bengali		☐ French
		· ·	· ·	
	☐ Germai		<ul><li>□ Japanese</li><li>□ Spanish</li></ul>	☐ Mandarin ☐ Other:
40	_		· ·	□ Other
	Online help: ☐ Basic ☐ Contex	= =		
17.	User interface: ☐ Command I			us
	■ User-Gener	rated Macros   Other:		
NICAL	/FUNCTIONAL			
18.	Operating systems supported:	☐ UNIX/X-Windows ■	I PC-DOS/Windows	■ Windows95
	. 5,	■ Windows/NT □ Ma		
		□ VAX/VMS □ Other:		
19.	Minimum hardware configuration			or with math copro-
	cessor support (DX series chip).	- ·	•	·
20.	Devices supported:			
		INPUT	OUT	PUT
	■ Digitizers: Kurta: IS/ONE, XLC	C: Altek: AC31LiteLine		
	Calcomp: Drawing Bo			
	Summagraphics: Sun			
	sketch III; GTCO: T5-	-		
	Numonics: GridMaste			
	Master II			
	☐ Frame Grabbers:			
	□ Scanners:			
	□ GPS:			
	□ CD-ROM:			
	□ Diskette:			
	□ Tape:			
	☐ Displays:			
	☐ Film Recorders:			
	☐ Electrostatic Plotters:			
	☐ Pen Plotters:			
	■ Ink Jet Printers:		Any supported	by Windows
	■ Laser Printers:			y supported by Windows
	□ Others:			
	rce code available: ◊ Yes: □ C	□ C++ □ FORTRAN	□ Pascal □ Other	<u> </u>
. Sou				
	♦ No			
. Batc	◆ No ch capability: ◆ Yes ◇ No			
. Batc	♦ No	access: ◇ Yes: □ C	□C++ □ FORTRAN	ı

DOCUMENTATION/INTERFACE

24. Integrated Data Base Management System: ♦ Yes ◇ No

25. Data Base File Types Supported:	■ dBase ■ Foxbase □ IMS □ INFO □ Intergraph
	□ Lotus □ Oracle □ Paradox □ Progress
	☐ Sybase ■ Other: <u>Access (Microsoft)</u>
26. Data Exchange Formats Supported	: DLG, DXF, many software-specific formats
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structure	ring ■ Datum Changes
□ Network Flow Analysis	Vector Overlay Analysis
■ Cell-based (Raster) Mo	odeling Surface Modeling
■ Map Composition/Gen	eration ■ Buffer generation
■ Raster-Vector Convers	ion ■ Line-of-Sight Analysis
□ Edgematching	☐ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	■ Image Enhancement
■ Geometric Rectification	n ■ Spatial Filtering
■ Image Mosaicking	☐ Fourier Analysis
■ Radiometric Correction	ms ■ Multivariate/Statistical Analysis
■ Raster GIS Modeling	□ Radar Geocoding & Analysis
■ Hardcopy Map Comp./	'Anno. ■ Principal Components Analysis
■ Filtering	■ Density Slicing
■ Supervised Classification	on    Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ N	lo
32. Spatial index supported: ♦ Yes ◊ No	)
33. Object Oriented Architecture: ◊ Yes	◆ No

Please describe additional features: Tools for Spatial Decision Support, Time Series Analysis and Uncertainty Analysis. Sold on a non-profit basis.

PRODUCT NAME: IGIS

Company/Organization							
	Company Name:		Laser-Scan Ltd.				
	Contact Person(s):		Phil Murfitt				
	Street Address:		Cambridge Science	e Park, Milton Road			
	City	/, State:	Cambridge				
	Zip	, Country:	CB4 4FY, UK				
	Pho	one:	44-01223-420414				
	Fax	<b>:</b>	44-01223-420044				
	Em	ail:	not reported				
	1.	Type of product:	oing DAM/FM	D CAD D Others			
		■ GIS ■ Image Proces	sing 🗆 Alvi/Fivi	□ CAD □ Other:			
LICENS	SING/	PRICING					
	•			:-10			
	۷.	Is the product public do		iai ?			
		◆ Commercial Prod		D. O'te. D. Others.			
		Licensed by: □ User □ System □ Site □ Other: concurrent user					
	_	License fee is: ■ One Time Charge □ Other Charge:					
	_	Turnkey system available (bundled hardware & software): ♦ Yes ♦ No					
	4.	Basic (minimal) software system cost: subject to requirements Complete (fully capable) software system cost: subject to requirements					
	5.	Complete (fully capable	) software system	cost: subject to requirements			
USER	BASI	3					
	6.	Total number of license	d users:7_				
	7.	Number of licensed use	rs by continent:	Africa:			
				Asia:			
				Australia:			
				Europe: 5			
				North America: 2			
	_		1005	South America:			
	8.	Year of first installation	: 1995				
Support/Updates							
	9.	Training available: ■ C	Courses  UVideos	☐ Tutorials ☐ Other:			
	10.	Software support availa	ble: ■ Worldwide	☐ Not Available ☐ Other:			
	11.	Cost of support:  Incl	uded in License	Other: subject to size of installation			
	12.	Software updates: ☐ Ar	nnually <b>S</b> emiann	nually 🛘 Other: <u>as available</u>			
	13.	Cost of updates: ■ Inc	luded in License or I	Maintenance Contract ☐ Other:			

15	System documentation available Languages available:   Arabic		ngali	■ English	☐ French
10.	□ Germai		•	· ·	☐ Mandarin
		ıese □ Ru		_ 00,000	■ Other:
16	Online help: ☐ Basic ☐ Contex			•	• Other.
				-Customizable Men	110
				external 'C' code	us
		ated Macros	Outlot	CALCITICIT O COGC	
NICAL	/FUNCTIONAL				
18.	Operating systems supported:	■ UNIX/X-Wind	dows □	PC-DOS/Windows	. □ Windows95
	operaning cyclemic supported.			Intosh PC-OS/2	
		□ VAX/VMS □			
	If UNIX/X-Windows, list vendors a				Alpha, and OSF/Motif
19.	Minimum hardware configuration		-	•	
	Devices supported:			_	
	• •	INPUT		OUT	PUT
	■ Digitizers: ALTEK, Calcomp				
	☐ Frame Grabbers:				
	Scanners: REF format				
	■ GPS:				
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	■ Electrostatic Plotters:			PostScript dev	ices
	■ Pen Plotters:			<u>Po</u> :	stScript devices
	■ Ink Jet Printers:			PostScript dev	ices
	■ Laser Printers:				stScript devices
	☐ Others:				
. Sou	rce code available: ◇ Yes: ☐ C	□ C++ □ FOR	TRAN	□ Pascal □ Other	<u> </u>
	◆ No				
. Batc	ch capability: ♦ Yes ◇ No				
ያ. Link	able libraries for data structure	access: ♦ Yes:	■C ■	C++ □ FORTRAN	N
			☐ Pasc	al 🗆 Other:	<u> </u>
		♦ No			
4. Integ	grated Data Base Management S	ystem: ♦ Yes	No		
	Base File Types Supported:	□ dBase □ Fox	base 🗆 l	MS □ INFO □ Inte	ergraph
5. Data					
5. Data		□ Lotus ■ Orac	le 🗆 Pai	adox 🛭 Progress	

DOCUMENTATION/INTERFACE

### ERDAS, I2s, TIFF, DLG

- 27. If GIS Product: Vector Raster
- 28. GIS Functionality:
  - Map Digitizing
  - Digital Map Editing
  - Topographical Structuring
  - Network Flow Analysis
  - Cell-based (Raster) Modeling
  - Map Composition/Generation
  - Raster-Vector Conversion
  - Edgematching
- 29. Image Processing Functionality:
  - Interactive Display
  - ☐ Geometric Rectification
  - Image Mosaicking
  - □ Radiometric Corrections
  - Raster GIS Modeling
  - Hardcopy Map Comp./Anno.
  - Filtering
  - Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - ☐ Fourier Analysis
  - Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - Unsupervised Classification

Please describe additional features: <u>IGIS</u> is a powerful fully integrated raster and vector processing geographical information system which also combines the most frequently used image processing functionality. <u>IGIS</u> is an effective management tool combining the benefits offered by remote sensing or raster based systems, with the analytical capabilities of a GIS, within a single system.

PRODUCT NAME: ILWIS, the Integrated Land and Water Information System

COMPANY/C	Company/Organization				
Con	npany Name:	ITC - ILWIS Department			
Con	ntact Person(s):	Mr. J.E.C. Melis			
Stre	eet Address:	350 Boulevard 1945			
City	, State:	Enschede			
Zip,	Country:	7500 AA, The Netherlands			
Pho	one:	31-053-487-43-37			
Fax	:	31-053-487-44-84			
Ema	ail:	ilwis@itc.nl			
		sing 🗆 AM/FM 🗅 CAD 🗅 Other:			
LICENSING/I	Pricing				
2.	<del>-</del>				
3.	3. Turnkey system available (bundled hardware & software): ♦ Yes ♦ No				
4.	4. Basic (minimal) software system cost: Dfl. 7500, -				
5.	Complete (fully capable	software system cost: Dfl. 7500, -			
USER BASE					
6.	Total number of license	d users: 2100			
7.	Number of licensed use	rs by continent: Africa: 222			
		Asia: 451			
		Australia:			
		Europe: 472			
		North America:			
		South America: 955			
8.	Year of first installation	1988			
SUPPORT/U	IPDATES				
9.	Training available:	ourses □ Videos ■ Tutorials □ Other:			
	_	ble: ■ Worldwide □ Not Available □ Other:			
		uded in License ■ Other: <u>free</u>			
		nually Semiannually Other:			
	3. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other: Dfl. 1250, -				

Documentation/Interface					
4.4	System decomposition systems as	■ Hardson, □ □	aatronia Filaa		
	System documentation available as:	· ·		D. Francis	
15.	Languages available:   Arabic	□ Bengali	ū	□ French	
	☐ German	☐ Hindi	☐ Japanese	☐ Mandarin	
	☐ Portuguese		•	☐ Other:	
	Online help:   Basic  Context Sensiti				
17.	User interface: ■ Command Line ■			us	
	■ User-Generated Ma	acros 🗅 Other:			
TECHNICAL	L/FUNCTIONAL				
10	Operating systems supported: □ UNI	Y/Y-\Mindows =		. □ Windows95	
10.		dows/NT □ MacI			
		dows/NT □ Mac ⟨/VMS □ Other:_		2 3 03/2 WAIN	
19	Minimum hardware configuration: 286			anhic screen, one	
10.	monochrome screen	o, mainematical oc	processor, one gr	aprile sereen, one	
20	Devices supported:				
20.	INPUT	F	OUT	DUIT	
	■ Digitizers: ASCII, Stream Mode, RS23		001	F01	
	☐ Frame Grabbers:				
	· · · · · · · · · · · · · · · · · · ·				
	■ Scanners: <u>any supporting TIFF</u> □ GPS:				
	■ CD-ROM: as DOS drive				
	■ Diskette: as DOS drive				
	■ Tape: as DOS drive				
	Displays:		SV	GA	
	☐ Film Recorders:		<u> </u>	<u> </u>	
	□ Electrostatic Plotters:		-		
	Pen Plotters:		HP	PGL, HPGL\2	
	■ Ink Jet Printers:		·	series, HP Paintjet	
	3311331		XL	· ·	
	■ Laser Printers:			ser-Jet, PostScript	
	☐ Others:			stScript Level 2, Epson compatible	
21. Sou	ırce code available: ◇ Yes: □ C □ C++	- □ FORTRAN □			
	◆ No				
22. Bate	ch capability: ♦ Yes ◇ No				
	kable libraries for data structure access:	♦ Yes: □ C □	C++ □ FORTRAN	1	
			al 🗆 Other:		
		♦ No		_	
24. Inte	grated Data Base Management System:				
	• • •	se □ Foxbase □ II	MS □ INFO □ Inte	ergraph	
_3 40		s □ Oracle □ Para		- 3 -1	
		se ■ Other: ASC	•		
	☐ Syba	se  Other: ASC	<u> </u>		

26. Data Exchange Formats Supported: Vector, Raster

- 27. If GIS Product: Vector Raster
- 28. GIS Functionality:
  - Map Digitizing
  - Digital Map Editing
  - Topographical Structuring
  - □ Network Flow Analysis
  - Cell-based (Raster) Modeling
  - Map Composition/Generation
  - Raster-Vector Conversion
  - Edgematching
- 29. Image Processing Functionality:
  - Interactive Display
  - Geometric Rectification
  - Image Mosaicking
  - □ Radiometric Corrections
  - Raster GIS Modeling
  - Hardcopy Map Comp./Anno.
  - Filtering
  - Supervised Classification
- **30. Multi-user Capability:** ♦ Yes ♦ No
- 31. Expert system capability: ◊ Yes ♦ No
- 32. Spatial index supported: ◊ Yes ♦ No
- 33. Object Oriented Architecture: ◊ Yes ◆ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - □ Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: GIS and IP combined in one package, Raster-Vector Conversion, Monoplotting Facility

PRODUCT NAME: INFOPORT

COMPAN	y/Organization				
С	Company Name:	Gardline Infotech			
С	Contact Person(s):	David Pettit			
S	Street Address:	Burlingham House, Hewett Road, Gapton Hall			
С	City, State:	Great Yarmouth, Norfolk			
Z	ip, Country:	NR31 0NN, UK			
P	Phone:	01493-442544			
F	ax:	01493-441200			
E	Email:	not reported			
		sing □ AM/FM □ CAD ■ Other: <u>MIS</u>			
LICENSIN	IG/PRICING				
3	License fee is: 0 3. Turnkey system availab 4. Basic (minimal) softwar	duct User □ System □ Site □ Other: □ One Time Charge □ Other Charge: Die (bundled hardware & software): ♦ Yes ◊ No			
USER BA	ASE				
6	6. Total number of license	ed users: 5			
	7. Number of licensed use				
		Asia:			
		Australia:			
		Europe: <u>5</u>			
		North America:			
		South America:			
8	3. Year of first installation:	: <u>1995</u>			
SUPPORT	T/UPDATES				
10 11	D. Software support availa  I. Cost of support: □ Incl	Courses □ Videos □ Tutorials □ Other:  able: ■ Worldwide □ Not Available □ Other: luded in License ■ Other:annual fee  nnually □ Semiannually □ Other:			
13	Cost of updates: ■ Included in License or Maintenance Contract □ Other:				

DOCUMEN	I A HON/IN I ERFACE				
14	System documentation availab	le as: ■ Hardcor	ov ■ Fl	ectronic Files	
	Languages available: ☐ Arabid	-	· -		☐ French
13.	☐ Germa		ndi	-	☐ Mandarin
		uese □ Ru:			☐ Other:
16	Online help: ■ Basic □ Conte				d Other.
	User interface: ■ Command	-	-		
17.					ıs
	■ User-Gene	rated Macros	Other:		
Traumusa	/Functional				
TECHNICAL	L/FUNCTIONAL				
18.	Operating systems supported:	■ UNIX/X-Wind	ows <b>I</b>	PC-DOS/Windows	■ Windows95
		■ Windows/NT	■ Macli	ntosh 🗆 PC-OS/2	□ OS/2 WARP
		□ VAX/VMS □	Other:		
	If UNIX/X-Windows, list vendors a	and window manag	gers supp	orted: <u>not reporte</u>	ed_
19.	Minimum hardware configurati	on: 486, 33 MHz	, 16 MB I	RAM, ½ GB disk	
20.	Devices supported:				
		INPUT		OUT	PUT
	■ Digitizers: all leading makes s	upported			
	■ Frame Grabbers:				
	Scanners: any scanner support				
	standard formatted				
	■ GPS:	-			
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	■ Displays:			_All :	standard makes
	■ Film Recorders:			via an exhau	ustive
	■ Electrostatic Plotters:			library of driv	vers
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
	☐ Others:				
21. Sou	ırce code available: ◇ Yes: 🗅 C	□ C++ □ FOR	TRAN 🗆	Pascal □ Other:	
	◆ No				
22. Bate	<b>ch capability: ◆</b> Yes ◇ No				
23. Lini	kable libraries for data structure	access: ◆ Yes:	<b>■</b> C □	C++ □ FORTRAN	I
			☐ Pasca	l □ Other:	<u> </u>
		♦ No			
24. Inte	grated Data Base Management	<b>System: ♦</b> Yes ◇	No		
25. Data	a Base File Types Supported:	■ dBase □ Foxb	ase 🗆 IN	/IS □ INFO □ Inte	ergraph
		□ Lotus □ Oracl	e 🛭 Para	dox □ Progress	
		□ Sybase ■ Oth	er: Acce	ess	

26. Data Exchange Formats Supported: \_\_not reported

27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	Change Map Projections
■ Topographical Structuring	Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	Surface Modeling
■ Map Composition/Generation	■ Buffer generation
□ Raster-Vector Conversion	Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	Image Enhancement
Geometric Rectification	☐ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◊ Yes ◆ No	
31. Expert system capability: ♦ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ◊ Yes ♦ No	

Please describe additional features: not reported

PRODUCT NAME: INFOSO with Photomap Professional

COMPANY	//ORGANIZATION						
Co	ompany Name: A/O Kiberso						
Co	ontact Person(s): Valery Zolotorev						
St	treet Address: Aviamotornaya 5	3					
Ci	ity, State: Moscow						
Zi	p, Country: Russia						
Pł	hone: 7-095-273-9216						
Fa	ax:7-095-273-1937						
Er	mail: not reported						
	. Type of product:  ■ GIS ■ Image Processing □ AM/FM  G/PRICING	□ CAD □ Other:					
LICENSING	5/FRICING						
2.	<ul> <li>Is the product public domain or commercial Product</li> <li>Licensed by: □ User □ System</li> <li>License fee is: ■ One Time Char</li> </ul>	■ Site □ Other:					
3.	3. Turnkey system available (bundled hardware & software): ♦ Yes ◆ No						
4.	4. Basic (minimal) software system cost: \$10,000						
5.	5. Complete (fully capable) software system cost: \$50,000						
USER BA	SE						
	<del>-</del>						
6	. Total number of licensed users: 500						
	Number of licensed users by continent:	Africa:					
7.	. Number of licensed users by continent.	Asia:					
		Australia:					
		Europe: 500					
		North America:					
		South America:					
8.	. Year of first installation: 1994						
SUPPORT	/UPDATES						
^	Training availables D. Courage D. Video	Tutoriala • Othor: on aita trainina					
9. 10	•	e □ Not Available ■ Other: <u>within former USSR</u>					
10.	• •						
11.	• •						
12.	2. Software updates: ☐ Annually ☐ Semiannually ☐ Other: <u>quarterly</u> 3. Cost of updates: ☐ Included in License or Maintenance Contract ☐ Other:						

DOCUMEN.	TATION/INTERFACE					
4.4	System decumentation sysilah	le ee. = I	lordoon. = F	lastronia Filos		
	System documentation availab				D. Franck	
15.	Languages available: ☐ Arabic		☐ Bengali	•	☐ French	
	☐ Germa		□ Hindi	•		
	-		■ Russian		☐ Other:	
16.	Online help: ■ Basic □ Contex					
17.	User interface: ☐ Command	Line ■ M	lenus ■ User-	Customizable Men	ıs	
	☐ User-Gene	rated Macr	os 🗆 Other:			
TECHNICAL	L/FUNCTIONAL					
				DO DOG###	- W. J. 05	
18.	Operating systems supported:					
				Intosh ☐ PC-OS/2	☐ OS/2 WARP	
			/MS ☐ Other:_			
	If UNIX/X-Windows, list vendors a			ported: Silicon Gr	aphics - IRIX v5.2	
	Minimum hardware configuration	on: <u>PC 28</u>	<u>86                                    </u>			
20.	Devices supported:					
		INPUT		OUTPUT		
	☐ Digitizers:					
	☐ Frame Grabbers:					
	■ Scanners: AGFA, EIKONIX, I	NTERGRA	<u>NPH</u>			
	■ GPS: Trimble					
	■ CD-ROM:					
	■ Diskette:					
	■ Tape: <u>AIC-80; 8 mm</u>					
	■ Displays:			EG	A, VGA, SVGA	
	☐ Film Recorders:					
	□ Electrostatic Plotters:					
	□ Pen Plotters:					
	Ink Jet Printers:					
	Laser Printers:					
	☐ Others:					
21. Sou	urce code available: 🕠 Yes: 🗖 C	□ C++	□ FORTRAN	□ Pascal □ Other:		
	◆ No					
22. Bat	ch capability: ♦ Yes ◊ No					
23. Lini	kable libraries for data structure	access:	♦ Yes: □ C □	C++ □ FORTRAN	I	
			□ Pasc	al 🗆 Other:	<u> </u>	
		<	⇒ No			
24. Inte	egrated Data Base Management S	system: ♦	Yes ♦ No			
	a Base File Types Supported:	-		MS □ INFO □ Inte	rgraph	
				adox 🛘 Progress		

26. Data Exchange Formats Supported: <u>DXF</u>

27. If GIS Product: ☐ Vector ■ Raster

## 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- Cell-based (Raster) Modeling
- ☐ Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- □ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- Filtering
- □ Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ◊ Yes ♦ No

■ Map Display & Query

- Change Map Projections
- Datum Changes
- □ Vector Overlay Analysis
- Surface Modeling
- Buffer generation
- ☐ Line-of-Sight Analysis
- Map Joining
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - Unsupervised Classification

Please describe additional features: not reported

PRODUCT NAME: LAMPS

COMPAN	COMPANY/ORGANIZATION						
C	Company Name:	Laser-Scan Ltd.					
C	Contact Person(s):	Paul Hardy					
8	Street Address:	Cambridge Science Park, Milton Road					
C	City, State:	Cambridge					
Z	Zip, Country:	CB4 4FY, UK					
F	Phone:	44-01223-420414					
F	Fax:	44-01223-420044					
E	Email:	paul@lsl.co.uk					
	1. Type of product:						
	☐ GIS ☐ Image Proces	sing □ AM/FM □ CAD ■ Other: <u>Mapping</u>					
LICENSIN	NG/PRICING						
4	<ol> <li>Is the product public do</li> <li>Commercial Product</li> </ol>						
	Licensed by: ■ User □ System □ Site □ Other:						
	License fee is: ■ One Time Charge □ Other Charge:						
	B. Turnkey system available (bundled hardware & software): ◆ Yes ♦ No  Basic (minimal) software system cost: not reported						
	5. Complete (fully capable) software system cost: <u>not reported</u>						
•	Complete (runy capable) software system cost. <u>not reported</u>						
USER B	USER BASE						
(	6. Total number of license	ed users: not reported					
7	7. Number of licensed use	ers by continent: Africa:					
		Asia:					
		Australia:					
		Europe:					
		North America:					
	South America:						
8	8. Year of first installation	: <u>1980</u>					
SUPPOR	T/UPDATES						
(	9. Training available: ■ (	Courses					
	=	able: ■ Worldwide □ Not Available □ Other:					
	• •	luded in License ■ Other: <u>maintenance contract</u>					
14	• • • • • • • • • • • • • • • • • • • •						

15.	Languages available: ☐ Arabic	□ Bengali	■ English	☐ French
	☐ Germar	_	☐ Japanese	■ Mandarin
	☐ Portugu	ese 🗆 Russian		□ Other:
16.	Online help: ■ Basic □ Context			
17.	User interface: ■ Command L	ine ■ Menus ■ Us	er-Customizable Men	us
	■ User-Genera	ated Macros 🛚 Other	<u> </u>	
HNICAL	L/FUNCTIONAL			
18.	Operating systems supported:	□ UNIX/X-Windows	□ PC-DOS/Windows	: □ Windows95
	c per anning cycles and per anning	□ Windows/NT □ M		
		■ VAX/VMS ■ Othe		
19.	Minimum hardware configuratio			
	DEC.	·		
20.	Devices supported:			
		INPUT	OUT	PUT
	■ Digitizers: ALTEK, Summagrap	ohics, Calcomp		
	Mutoh, GTCO, Kontro	n, etc.		
	☐ Frame Grabbers:			
	■ Scanners: TIFF, Scitex, Anated	ch, Vidar, Hell, Joyce		
	Loebl, Scan-Graphics	<u> </u>		
	☐ GPS:			
	CD-ROM:			
	■ Diskette:			
	■ Tape:			
	■ Displays:		<u>X-t</u>	erminals
	■ Film Recorders:		Barco, Egherg	rad
	■ Electrostatic Plotters:		Calcomp, Vers	satek, etc.
	■ Pen Plotters:			lcomp, HPGL
	■ Ink Jet Printers:		HP, Calcomp	
	■ Laser Printers:		_ <u>Po</u>	stScript
	☐ Others:			
1. Sou	urce code available: ♦ Yes: □ C ♦ No	□ C++ □ FORTRAN	□ Pascal □ Other	<u>:</u>
2. Bate	ch capability: ♦ Yes ♦ No			
	kable libraries for data structure a	ccess: ♦ Yes: □ C	□ C++ ■ FORTRAM	N
			scal 🗅 Other:	
		♦ No		<u> </u>
	grated Data Base Management S	vstem• ♦ Yes ⊹ No		

DOCUMENTATION/INTERFACE

☐ Lotus	■ Oracle ⊔ Paradox ⊔ Progress						
□ Sybase ■ Other: Rdb, INGRES							
26. Data Exchange Formats Supported: DXF, ARC/Info, NTF, DCW, DIGIT, DLG, GDB, IMAP, KERN,							
MAPDATA, MGD, CEDD, MGDS, OSTF, GIF,	TDST, DFAD, DTED, I2S, DEM, MNT						
27. If GIS Product: ■ Vector ■ Raster							
28. GIS Functionality:							
■ Map Digitizing	■ Map Display & Query						
■ Digital Map Editing	■ Change Map Projections						
■ Topographical Structuring	■ Datum Changes						
■ Network Flow Analysis	■ Vector Overlay Analysis						
■ Cell-based (Raster) Modeling	■ Surface Modeling						
■ Map Composition/Generation	■ Buffer generation						
■ Raster-Vector Conversion	■ Line-of-Sight Analysis						
■ Edgematching	■ Map Joining						
29. Image Processing Functionality:							
■ Interactive Display	■ Image Enhancement						
■ Geometric Rectification	■ Spatial Filtering						
■ Image Mosaicking	☐ Fourier Analysis						
Radiometric Corrections	☐ Multivariate/Statistical Analysis						
■ Raster GIS Modeling	☐ Radar Geocoding & Analysis						
■ Hardcopy Map Comp./Anno.	☐ Principal Components Analysis						
■ Filtering	☐ Density Slicing						
Supervised Classification	Unsupervised Classification						
<b>30. Multi-user Capability: ◆</b> Yes ◊ No							
31. Expert system capability: ◊ Yes ♦ No							
32. Spatial index supported: ◆ Yes ◊ No							
33. Object Oriented Architecture: ◊ Yes ♦ No							

Please describe additional features: Terrain model creation and visualization; production flowline control

PRODUCT NAME: LAMPS<sup>2</sup> - Object Oriented Mapping

Contact Street A City, Sta Zip, Con Phone: Fax: Email: _	ate:Cambridge untry:CB4 4FY, UK44-01223-42041444-01223-420044paul@lsl.co.uk  oe of product:		
Contact Street A City, Str Zip, Cor Phone: Fax: Email: _	t Person(s): Paul Hardy  Address: Cambridge Science ate: Cambridge untry: CB4 4FY, UK  44-01223-420414  44-01223-420044  paul@lsl.co.uk	ce Park, Milton Road	
Street A City, Sta Zip, Con Phone: Fax: Email: _	Address: Cambridge Science ate: Cambridge untry: CB4 4FY, UK	<u> </u>	
City, Standard Zip, Cou Phone: Fax: Email: _ 1. Typ	ate:Cambridge untry:CB4 4FY, UK44-01223-42041444-01223-420044paul@lsl.co.uk  oe of product:	<u> </u>	
Zip, Coo Phone: Fax: Email: _ 1. Typ	untry: CB4 4FY, UK		
Phone: Fax: Email: _ 1. Typ	44-01223-420414 44-01223-420044 paul@lsl.co.uk		
Fax: Email: _ 1. Tyr	44-01223-420044 paul@lsl.co.uk pe of product:		
Email: _ 1. Typ	paul@lsl.co.uk  pe of product:		
- 1. Тур	pe of product:		
		□ CAD ■ Other: <u>Mapping</u>	1
LICENSING/PRICE	CING		
3. Tur 4. Bas	he product public domain <i>or</i> commerce  ◆ Commercial Product  Licensed by: ■ User □ System  License fee is: ■ One Time Charge  rnkey system available (bundled hardwasic (minimal) software system cost:n  mplete (fully capable) software system	□ Site □ Other: ge □ Other Charge: vare & software): ◆ Yes ◊ No ot reported_	
USER BASE			
6 Tot	tal number of licensed users: 4		
	mber of licensed users by continent:	Africa:	
7. Nui	inber of incensed users by continent.		
		Asia: Australia:	
		Europe: 4	
		North America:	
		South America:	
8. Yea	ar of first installation: 1995	Godin / interiora.	
SUPPORT/UPDA	ATES		
10. Sof 11. Cos 12. Sof	nining available: ■ Courses □ Videos  ftware support available: ■ Worldwide  st of support: □ Included in License ■  ftware updates: □ Annually ■ Semian  st of updates: ■ Included in License or	● □ Not Available □ Other: ■ Other:maintenance contract_ nually □ Other:	

14.	System documentation availab	ole as: ■ Hard	copy 🖵 Ele	ectronic Files	
15.	Languages available:   Arabic	: 💷 l	Bengali	■ English	☐ French
	☐ Germa	an 💷 l	Hindi	□ Japanese	☐ Mandarin
	☐ Portug	guese 💷 🗀 🖯	Russian	□ Spanish	☐ Other:
16.	Online help: ☐ Basic ☐ Conte	xt Sensitive ■	Hypertext	□ N/A	
17.	User interface: ☐ Command	Line ■ Menus	s ■ User-0	Customizable Menu	ıs
	☐ User-Gene	erated Macros	□ Other:		
TECHNICAL	/Functional				
12011110712	21 011011011011				
18.	Operating systems supported:	■ UNIX/X-W	indows 🗆 l	PC-DOS/Windows	☐ Windows95
		□ Windows/N	NT ☐ MacI	ntosh 🗆 PC-OS/2	□ OS/2 WARP
		□ VAX/VMS	□ Other:		
	If UNIX/X-Windows, list vendors a	and window mar	nagers supp	orted: Sun Solar	is 2 and Motif; DEC
	Alpha AXP and Motif.				
19.	Minimum hardware configurati	i <b>on:</b> Workstation	on with 64 M	IB memory, 2 GB o	disk
20.	Devices supported:				
		INPUT		OUTPUT	
	■ Digitizers: Calcomp, Altek				
	☐ Frame Grabbers:				
	Scanners: TIFF				
	☐ GPS:				
	CD-ROM:				
	■ Diskette:				
	■ Tape:				
	■ Displays:			X-te	erminals
	■ Film Recorders:			Barco, Eghergi	rad
	■ Electrostatic Plotters:			Calcomp	
	☐ Pen Plotters:			·	
	■ Ink Jet Printers:			HP, Calcomp (	PostScript)
	■ Laser Printers:				stScript
	☐ Others:				
21. Sou	rce code available: ♦ Yes: 🗖 🤇	C □ C++ □ FC	ORTRAN .	Pascal □ Other:	
	♦ No				
22. Bato	ch capability: ♦ Yes ♦ No				
23. Link	cable libraries for data structure	access: ◊ Ye	s: 🗆 C 🗆	C++ □ FORTRAN	
			□ Pasca	ıl □ Other:	
		♦ No			<u> </u>
24. Inte	grated Data Base Management	Svstem: ♦ Yes	◇ No		
	a Base File Types Supported:	=		//S □ INFO □ Inte	ergraph
				idox □ Progress	3 - 1
		☐ Sybase ■ C		ū	
26. Data	a Exchange Formats Supported	-			
		- <u></u>	, ,		

DOCUMENTATION/INTERFACE

27. If GIS Product: ■ Vector ■ Raster 28. GIS Functionality: ■ Map Digitizing ■ Map Display & Query ■ Digital Map Editing ■ Change Map Projections ■ Topographical Structuring ■ Datum Changes ■ Network Flow Analysis ■ Vector Overlay Analysis ■ Cell-based (Raster) Modeling □ Surface Modeling ■ Map Composition/Generation ■ Buffer generation ■ Raster-Vector Conversion ■ Line-of-Sight Analysis ■ Edgematching ■ Map Joining 29. Image Processing Functionality: ■ Interactive Display ■ Image Enhancement ■ Geometric Rectification ■ Spatial Filtering ■ Image Mosaicking □ Fourier Analysis ☐ Multivariate/Statistical Analysis □ Radiometric Corrections ■ Raster GIS Modeling ☐ Radar Geocoding & Analysis ■ Hardcopy Map Comp./Anno. ☐ Principal Components Analysis ■ Filtering □ Density Slicing ☐ Unsupervised Classification □ Supervised Classification 30. Multi-user Capability: ◆ Yes ◊ No

31. Expert system capability: ◊ Yes ♦ No
32. Spatial index supported: ♦ Yes ◊ No
33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: Object-oriented spatial database is fully versioned for handling change over time and long transactions on very large multi-user continuous datasets. Data is not just x,y and attributes, but objects which have behaviors.

# PRODUCT NAME: LAS/ADAPS (Land Analysis System / AVHRR Data Acquisition and Processing System)

Сомр	Company/Organization						
	Cor	mpany Name:	EROS Data Center				
	Cor	ntact Person(s):	Jim Fenno				
	Str	eet Address:	Mundt Federal Building				
	City	/, State:	Sioux Falls, SD				
	Zip	, Country:	57198, USA				
	Pho	one:	605-594-6833				
	Fax	<b>:</b>	605-594-6940				
	Em	ail:	fenno@sg2.cr.usgs.gov				
	1.	Type of product: ■ GIS ■ Image Proces	esing □ AM/FM □ CAD □ Other:				
LICENS	SING/	PRICING					
	2.	Is the product public do  Public Domain: Costs for Distril	omain or commercial?  oution/Documentation: Available to government agencies and universities  only at cost of reproduction				
	3.	3. Turnkey system available (bundled hardware & software): ♦ Yes ◆ No					
	4.	4. Basic (minimal) software system cost: not reported					
	5.	5. Complete (fully capable) software system cost: not reported					
USER	Basi						
	6	Total number of license	ad usars: 34				
		Number of licensed use					
			Asia: 1				
			Australia: 1				
			Europe: 3				
			North America: 27				
			South America:				
	8.	Year of first installation	: <u>1983</u>				
SUPPO	ORT/L	JPDATES					
	•	Taskela a socileble.	December D. Wildere D. Tratariala .				
	9.	=	Courses Uvideos Unterials Other: Not available				
	10.	• •	able: □ Worldwide □ Not Available ■ Other: For cooperating agencies				
	11.		luded in License ■ Other: N/A				
	12.	<u>-</u>	nnually				
	13.	3. Cost of updates: ☐ Included in License or Maintenance Contract ■ Other: None					

Documentation/Interface							
4.4	. System documentation available as: ☐ Hardcopy ■ Electronic Files						
				D.Farrak			
15.	Languages available: ☐ Arabic	_	<del>-</del>	☐ French			
	☐ Germa		□ Japanese				
		juese 🗆 Russia	•	☐ Other:			
	Online help: ☐ Basic ☐ Conte	= =					
17.	User interface: ■ Command	Line ■ Menus ■ U	User-Customizable Mer	nus			
	☐ User-Gene	erated Macros   Oth	ner: Minimal GUI for ce	rtain applications			
	-						
TECHNICAL	/FUNCTIONAL						
18.	Operating systems supported:	■ UNIX/X-Windows	s DPC-DOS/Windows	s □ Windows95			
	3 3, 44 4 4 4 4 4 4		MacIntosh □ PC-OS/				
		□ VAX/VMS □ Ot					
	If UNIX/X-Windows, list vendors a			raphics IRIX 5.3. Sun			
	SunOS 4.1.3, Data General DGU		- сарронові <u>- сіносіі с</u>				
19.	Minimum hardware configuration		devices (3480_8mm_9	track 4 mm) 8 or 24			
	bit color monitor.	om 2 ob dion, tapo	<u> </u>	(100K, 11111), 0 01 2 1			
20	Devices supported:						
20.	Devices supported.	INPUT	0117	ГРИТ			
	■ Disitirans			iFOI			
	■ Digitizers:						
	☐ Frame Grabbers:						
	□ Scanners:						
	□ GPS:		-				
	■ CD-ROM:						
	□ Diskette:						
	■ Tape: 3480, 8 mm, 4 mm, 9 t	rack		ame			
	■ Displays:		_ <u>X-</u>	terminals			
	Film Recorders:						
	■ Electrostatic Plotters:						
	■ Pen Plotters:						
	☐ Ink Jet Printers:						
	■ Laser Printers:						
	Others:			·			
21. Sou	rce code available: ♦ Yes: ■ (	C □ C++ ■ FORTR	AN Pascal Othe	r:			
	♦ No						
	ch capability: ♦ Yes ♦ No						
23. Link	cable libraries for data structure			•			
			Pascal    Other:	<u> </u>			
		♦ No					
24. Inte	grated Data Base Management	System: ♦ Yes ◆ No	)				
25 Dete	a Base File Types Supported:	□ dBase □ Fovbase	e 🗆 IMS 🗀 INFO 🗀 Int	ergraph			
20. Date	a account types oupported.						
	□ Lotus □ Oracle □ Paradox □ Progress						

□ Sybase □ Other:					
26. Data Exchange Formats Supported: binary transfer file					
27. If GIS Product: ■ Vector ■ Raster					
28. GIS Functionality:					
■ Map Digitizing	☐ Map Display & Query				
Digital Map Editing	■ Change Map Projections				
Topographical Structuring	■ Datum Changes				
Network Flow Analysis	■ Vector Overlay Analysis				
Cell-based (Raster) Modeling	Surface Modeling				
Map Composition/Generation	Buffer generation				
■ Raster-Vector Conversion	☐ Line-of-Sight Analysis				
■ Edgematching	■ Map Joining				
29. Image Processing Functionality:					
■ Interactive Display	■ Image Enhancement				
■ Geometric Rectification	■ Spatial Filtering				
■ Image Mosaicking	■ Fourier Analysis				
■ Radiometric Corrections	■ Multivariate/Statistical Analysis				
Raster GIS Modeling	Radar Geocoding & Analysis				
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis				
■ Filtering	Density Slicing				
■ Supervised Classification	Unsupervised Classification				
30. Multi-user Capability: ◆ Yes ◊ No					
31. Expert system capability: ♦ Yes ♦ No					

32. Spatial index supported: ◊ Yes ◆ No33. Object Oriented Architecture: ◊ Yes ◆ No

Please describe additional features: Applications may be modified to work with specific vendor I/O devices.

# PRODUCT NAME: LASER WALKABOUT V 2.0

Сомра	NY/ORGANIZATION				
	Company Name:	Laser Technology, Inc.			
	Contact Person(s):	Blair Zukan			
	Street Address:	7070 S. Tucson Way			
	City, State:	Englewood, CO			
	Zip, Country:	80112, USA			
	Phone:	303-649-1000			
	Fax:	303-649-9710			
	Email:	lasertek@ix.netcom.com			
	Type of product:     ■ GIS □ Image Proces	sing 🗆 AM/FM 🗅 CAD 🗅 Other:			
LICENS	ING/PRICING				
	<ul> <li>2. Is the product public domain or commercial? <ul> <li>Commercial Product</li> <li>Licensed by: □ User ■ System □ Site □ Other:</li> <li>License fee is: □ One Time Charge ■ Other Charge: per unit charge</li> </ul> </li> <li>3. Turnkey system available (bundled hardware &amp; software): ◊ Yes ◊ No</li> <li>4. Basic (minimal) software system cost: \$2,200.00</li> <li>5. Complete (fully capable) software system cost: \$14,175</li> </ul>				
USER E	BASE				
	6. Total number of license				
	7. Number of licensed use	•			
		Asia: <u>5</u>			
		Australia: 10			
		Europe: 8  North America: 79			
		South America: 2			
	8. Year of first installation				
Support/Updates					
		Courses □ Videos ■ Tutorials □ Other:			
	• •	ıble: ■ Worldwide □ Not Available □ Other:			
•		uded in License			
		2. Software updates: ■ Annually □ Semiannually □ Other:			
•	13. Cost of updates: ■ Inc	luded in License or Maintenance Contract ■ Other: per update fee optional			

DOCUME	NTATION/INTERFACE				
1/	I. System documentation availabl	A as: Hardcony	Electronic Files		
	5. Languages available:   Arabic	□ Bengali		☐ French	
10	. Languages available. ☐ Alabic	J	■ Lingiisii □ Japanese		
		uese □ Russian	•	☐ Other:	
16	6. Online help: ☐ Basic ☐ Contex		· ·	<b>2</b> 0thor	
	7. User interface: ☐ Command I			IS	
•••		rated Macros   Other:			
	_ 333. 333.		<u> </u>		
TECHNIC	AL/FUNCTIONAL				
1 201 11410	ALI ONOTIONAL				
18	3. Operating systems supported:				
		□ Windows/NT □ Ma		□ OS/2 WARP	
		□ VAX/VMS □ Other			
	9. Minimum hardware configuration	on: <u>IBM 386, 4 MB RA</u>	M, 4 MB of disk space	<u> </u>	
20	). Devices supported:				
		INPUT	OUTI	PUT	
	☐ Digitizers:				
	☐ Frame Grabbers:				
	□ Scanners:				
	■ GPS: All GPS receivers - along	-			
	finder				
	□ CD-ROM:				
	<ul><li>□ Diskette:</li><li>□ Tape:</li></ul>				
	☐ Displays:				
	☐ Film Recorders:				
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	☐ Ink Jet Printers:				
	☐ Laser Printers:				
	☐ Others:				
21. Sc	ource code available: ◊ Yes: ☐ C	□ C++ □ FORTRAN	□ Pascal □ Other:		
	◆ No				
22. Ba	atch capability: ♦ Yes ◇ No				
23. Li	nkable libraries for data structure a	access: ♦ Yes: □ C	□ C++ □ FORTRAN		
		□ Pa	scal 🗆 Other:	_	
		♦ No			
	tegrated Data Base Management S	•			
25. Da	ata Base File Types Supported:	☐ dBase ☐ Foxbase ☐		rgraph	
		☐ Lotus ☐ Oracle ☐ P	<del>-</del>		
		□ Sybase □ Other:			

26. Data Exchange Formats Supported: not reported

27. If GIS Product: ☐ Vector ☐ Raster

28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
Digital Map Editing	Change Map Projections
Topographical Structuring	Datum Changes
Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	■ Surface Modeling
Map Composition/Generation	Buffer generation
Raster-Vector Conversion	■ Line-of-Sight Analysis
Edgematching	□ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	Image Enhancement
Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	<ul><li>Density Slicing</li></ul>
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◆ No	

31. Expert system capability: ◊ Yes ♦ No
32. Spatial index supported: ◊ Yes ♦ No
33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: LASER WALKABOUT is a field data collection system for use in gathering information, both spatial and feature/attribute, to populate GIS database. LASER WALKABOUT works with GPS and Laser Rangefinder to make data collection faster than with GPS alone. Data may be exported to any GIS system.

# PRODUCT NAME: MAPS IN ACTION for Windows

COMPANY/	COMPANY/ORGANIZATION				
Co	ompany Name:	Action Information (Ma	lanagement) I td		
			anagement) Ltd.		
		Ashton Road			
			dge, Wiltshire		
	-	-			
=	· -				
	·	44-01225-751616			
	<u> </u>				
1.		ing □ AM/FM □ (	CAD 🗆 Other:		
3. 4.	<ul> <li>2. Is the product public domain or commercial? <ul> <li>Commercial Product</li> <li>Licensed by: ■ User □ System □ Site □ Other: Or to suit requirements</li> <li>License fee is: ■ One Time Charge □ Other Charge: Othe</li></ul></li></ul>				
USER BASE					
6.	Total number of license	d users: 200			
	Number of licensed use		frica: <u>5</u>		
		•	sia:		
		Αι	ustralia:		
		Ει	urope: <u>195</u>		
		No	orth America:		
		Sc	outh America:		
8.	Year of first installation:	1994			
Support/Updates					
9.	Training available: ■ C	ourses 🗆 Videos 🗀	Tutorials □ Other:		
10.	_		Not Available □ Other:		
11.	• •		ther: Support contract available		
12.			ally 🗅 Other:		
			intenance Contract  Other:		

14.	System documentation availa	ble as: ■ Hardcopy ■ E	Electronic Files	
15.	Languages available:   Arab	ic 🔲 Bengali	■ English	☐ French
	□ Germ		_	☐ Mandarin
	☐ Portu	iguese 🔲 Russian	· ·	
16.	Online help:   Basic   Con	text Sensitive   Hypertex	t □ N/A	
17.	User interface: ☐ Comman	d Line □ Menus ■ User	r-Customizable Mei	nus
	☐ User-Ger	erated Macros   Other:	Touch screen butt	tons user customizable
TECHNICAL	/Functional			
10	Operating systems supported	I. □ LINIY/Y Windows ■ [	DC DOS/Mindows	■ Windows05
10.	Operating systems supported	. □ Olvix/x-windows □ i. Windows/NT □ Macli		
		□ VAX/VMS □ Other:		3 00/2 WART
19.	Minimum hardware configura			RAM
	Devices supported:	<u></u>	, , , , , , , , , , , , , , , , , , , ,	<del></del>
	эт э	INPUT	OU.	TPUT
	☐ Digitizers:	_		
	☐ Frame Grabbers:			
	□ Scanners:			
	GPS: Various			
	■ CD-ROM:			
	■ Diskette: 3.5 inch			
	□ Tape:			
	■ Displays:			GA, SVGA up to 1278 x 1024
			<u>re</u>	solution, optional touch screen
	☐ Film Recorders:			
	☐ Electrostatic Plotters:			
	□ Pen Plotters:			LIBOL
	■ Ink Jet Printers:		HP compatibl	
	■ Laser Printers:			PGL supported P and others
	☐ Others:		<u></u>	and others
21. Sou	rce code available: ♦ Yes: □	C DC++ D FORTRAN	— Pascal □ Othe	er.
2004	♦ No			··· <u>·</u>
22. Bato	ch capability: ♦ Yes ♦ No			
	cable libraries for data structur	e access: ◊ Yes: □ C □	□C++ □FORTRA	AN
			cal □ Other:	
		♦ No		
24. Inte	grated Data Base Management	System: ◊ Yes ◊ No		
	a Base File Types Supported:	=	MS □ INFO □ Inte	ergraph
		□ Lotus □ Oracle □ Para		
		☐ Sybase ☐ Other:		
26 Date	a Exchange Formats Supported	·		

DOCUMENTATION/INTERFACE

27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
☐ Map Digitizing	■ Map Display & Query
☐ Digital Map Editing	□ Change Map Projections
Topographical Structuring	□ Datum Changes
□ Network Flow Analysis	■ Vector Overlay Analysis
□ Cell-based (Raster) Modeling	□ Surface Modeling
☐ Map Composition/Generation	■ Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	□ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
Geometric Rectification	□ Spatial Filtering
☐ Image Mosaicking	□ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	<ul> <li>Principal Components Analysis</li> </ul>
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ♦ No	

Please describe additional features: MAPS IN ACTION for Windows has been specifically designed for decision makers and offers fast response and intuitive operation. The software is extremely flexible, the user interface is configurable, and MAPS IN ACTION for Windows may be interfaced to other applications - using standard Windows communications routines, RS232 serial communications or network communications. Both stand alone and networked solutions are available.

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: MAPS 3D Digital Mapping Solutions

Сомра	NY/ORGANIZATION				
	Company Name:	Pacific International Mapping Corp.			
	Contact Person(s):	Michael Layland			
	Street Address:	101 4218 Commerce Circle			
	City, State:	Victoria, B.C.			
	Zip, Country:	V8Z 6N6, Canada			
	Phone:	1-604-727-0727			
	Fax:	1-604-727-3153			
	Email:maps3d@pim.bc.ca				
	Type of product:     □ GIS □ Image Process	sing □ AM/FM □ CAD ■ Other: <u>Digital Mapping Software</u>			
LICENS	ING/PRICING				
	<ul> <li>2. Is the product public domain or commercial? <ul> <li>Commercial Product</li> <li>Licensed by: ■ User □ System ■ Site □ Other:</li> <li>License fee is: ■ One Time Charge □ Other Charge:</li> </ul> </li> <li>3. Turnkey system available (bundled hardware &amp; software): ◆ Yes ◊ No</li> <li>4. Basic (minimal) software system cost: US \$6490</li> <li>5. Complete (fully capable) software system cost: Typically US \$15000, (System is modular, application-configurable.</li> </ul>				
USER E	BASE				
	6. Total number of license	d users: <u>310</u>			
	7. Number of licensed use	rs by continent: Africa:			
		Asia:			
		Australia:			
		Europe: 2			
		North America: 304			
		South America: 4			
	8. Year of first installation:	<u>1989</u>			
Support/Updates					
OUFFOI	(I/OFDATES				
	<u>-</u>	ourses 🗆 Videos 🗅 Tutorials 🗅 Other:			
1	0. Software support availa	ble: ■ Worldwide □ Not Available □ Other:			
1	<ol> <li>Cost of support: ■ Incl</li> </ol>	uded in License    Other: For first year, charge for subsequent years			
1	Software updates: ☐ Annually ☐ Semiannually ☐ Other: on average, no fixed cycle				

13.	Cost of updates: ■ In	cluded in License o	r Maintenance C	ontract 🛚 Other:_		
DOCUMENT	TATION/INTERFACE					
14.	System documentation	n available as: ■	Hardcopy ■ E	lectronic Files		
15.	Languages available:		□ Bengali	■ English		
		☐ German	□ Hindi □ Russian	•		
16	Online help:   Basic	<ul><li>□ Portuguese</li><li>□ Context Sensitive</li></ul>		□ Spanish	☐ Other:	
		ommand Line			JS	
		ser-Generated Mac				
TECHNICAL	/FUNCTIONAL					
18.	Operating systems su	pported: □ UNIX/X	-Windows ■ P	C-DOS/Windows	⊒ Windows95	
		· =		tosh □ PC-OS/2		
		□ VAX/VI	MS □ Other:			
19.	Minimum hardware co	nfiguration: <u>486</u> F	PC, 16 MB syste	m memory, 14" VG	A or SVGA and	
	second graphics monitor	and Hercules, 12"	x 12" digitizing ta	ablet_		
20.	Devices supported:					
	_ 5	INPUT		OUT	PUT	
	■ Digitizers:					
	☐ Frame Grabbers:					
	☐ Scanners:					
	□ GPS: ■ CD-ROM:					
	☐ Diskette:					
	☐ Tape:					
	☐ Displays:					
	☐ Film Recorders:					
	■ Electrostatic Plotters:					
	□ Pen Plotters:					
	■ Ink Jet Printers:					
	□ Laser Printers:					
	☐ Others:					
21. Sou	rce code available: ♦		☐ FORTRAN	☐ Pascal ☐ Other	:	
00 D-4		No No				
	ch capability: ◆ Yes ◇ kable libraries for data s		▲ Voo: □ C ■	C. DEODTDA	NI.	
Z3. LIIII	Rable libraries for data s	tructure access.		al □ Other:		
			♦ No	ai 🔟 Otilei		
24. Inte	grated Data Base Mana					
	a Base File Types Supp			IS □ INFO ■ Inter	graph	
				dox □ Progress	<b>U</b>	
			□ Other:	- <b>3</b>		

26. Data Exchange Formats Supported: not repo	<u>orted</u>			
27. If GIS Product: ■ Vector □ Raster				
28. GIS Functionality:				
■ Map Digitizing	■ Map Display & Query			
■ Digital Map Editing	■ Change Map Projections			
■ Topographical Structuring	■ Datum Changes			
Network Flow Analysis	□ Vector Overlay Analysis			
Cell-based (Raster) Modeling	■ Surface Modeling			
■ Map Composition/Generation	□ Buffer generation			
Raster-Vector Conversion	■ Line-of-Sight Analysis			
■ Edgematching	■ Map Joining			
29. Image Processing Functionality:				
□ Interactive Display	☐ Image Enhancement			
■ Geometric Rectification	□ Spatial Filtering			
☐ Image Mosaicking	□ Fourier Analysis			
Radiometric Corrections	□ Multivariate/Statistical Analysis			
Raster GIS Modeling	□ Radar Geocoding & Analysis			
Hardcopy Map Comp./Anno.	Principal Components Analysis			
☐ Filtering	□ Density Slicing			
Supervised Classification	Unsupervised Classification			
<b>30. Multi-user Capability:</b> ♦ Yes ♦ No				
31. Expert system capability: ◊ Yes ♦ No				
32. Spatial index supported: ♦ Yes ♦ No				
33. Object Oriented Architecture: ◊ Yes ♦ No				
Please describe additional features: A production	n toolbox for digital manning including data acquisition			

and topological cleaning. System is modular allowing configuration of system to application requirements.

Work with, and requires, microstation PC.

PRODUCT NAME: MAPTITUDE

Сомра	NY/ORGANIZATION		
	Company Name: Caliper Corpora	tion	
	Contact Person(s): Jack MacDouga	<u>all</u>	
	Street Address: 1172 Beacon Street		
	City, State: Newton, MA		
	<b>Zip, Country:</b> 02161-9926, USA		
	<b>Phone:</b> 617-527-4700		
	Fax: 617-527-5113		
	Email: info@caliper.co	m	
	1. Type of product:		
	■ GIS □ Image Processing □ AM/FM	□ CAD □ Other:	
LICENS	ing/Pricing		
LICENS	ing/Fricing		
	2. Is the product public domain <i>or</i> comme	arcial?	
	Commercial Product	ii Clai f	
		n D Sito D Othor:	
	License fee is: ■ One Time Cha	n 🗆 Site 🗅 Other:	
		· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	•	
	5. Complete (fully capable) software syste	m cost: \$395_	
USER E	BASE		
	6. Total number of licensed users: 1000	<u>+_</u>	
	7. Number of licensed users by continent	: Africa:	
	•	Asia:	
		Australia:	
		Europe:	
		North America:	
		South America:	
	8. Year of first installation: 1995		
SUPPO	RT/UPDATES		
	9. Training available: ■ Courses □ Video		
	10. Software support available: ■ Worldwi		
	11. Cost of support: ■ Included in License		
	12. Software updates: ☐ Annually ☐ Semi		
	13 Cost of undates:   Included in License	or Maintenance Contract  Other: to be determined	

14.	System documentation available	le as: ■ Hardcopy	☐ Electronic Files	
	Languages available: ☐ Arabic	□ Beng		☐ French
	☐ Germa	_		☐ Mandarin
	☐ Portugu	uese □ Russ	ian □ Spanish	☐ Other:
16.	Online help: ☐ Basic ☐ Contex		· ·	
			User-Customizable Me	nus
	☐ User-Gener	rated Macros   O	ther: toolbars and toolb	oxes
TECHNICAL	/FUNCTIONAL			
10	Operating systems supported:	□ LINIY/Y Windo	ws ■ BC DOS/Mindow	vs. □ Windows05
10.	Operating systems supported.		MacIntosh □ PC-OS	
				/2 U 03/2 WARP
19	Minimum hardware configuration			IB disk space CD-ROM
	Devices supported:	711. <u>00400, vviridov</u>	73 3.1, O IVID TO TVI	D disk space, OB KOW
20.	bevices supported.	INPUT	OH	TPUT
	■ Digitizers: Any with Wintab driv	_		
	☐ Frame Grabbers:			
	■ Scanners: Indirectly: Maptitude		<del></del>	
		o carr aropiay i ii i		
	■ GPS: Various, with Maptitude		<del></del>	
	■ CD-ROM: Any, with appropria			
	■ Diskette: Any, with appropriate		A	ny, with appropriate driver
	■ Tape: Any, with appropriate dr	iver	A	ny, with appropriate driver
	■ Displays:		_ <u>A</u>	ny, with appropriate driver
	■ Film Recorders:		Any, with app	propriate driver
	■ Electrostatic Plotters:		Any, with app	ropriate driver
	■ Pen Plotters:		_ <u>A</u>	ny, with appropriate driver
	■ Ink Jet Printers:		Any, with app	propriate driver
	■ Laser Printers:		_A	ny, with appropriate driver
	□ Others:		_	
21. Sou	rce code available: ◇ Yes: □ C	□ C++ □ FORTE	RAN □ Pascal □ Othe	er:
	♦ No			
22. Bate	ch capability: ◆ Yes ◇ No			
23. Link	kable libraries for data structure			
			☐ Pascal ☐ Other:	<u></u>
		◆ No		
	grated Data Base Management S	-		
25. Data	a Base File Types Supported:		se □IMS □INFO □In	- ·
			□ Paradox □ Progress	
		☐ Sybase ■ Other	: Any with ODBC drive	<u>r_</u>

DOCUMENTATION/INTERFACE

26. Data Exchange Formats Supported: DXF, MIF, BNA, EOO, TIGER/LINE, UNGEN, ETAK STREETS,

<u>etc.</u>	
27. If GIS Product: ☐ Vector ☐ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	Surface Modeling
■ Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	Map Joining
29. Image Processing Functionality:	
■ Interactive Display	Image Enhancement
Geometric Rectification	□ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	

31. Expert system capability: ◊ Yes ◊ No
32. Spatial index supported: ◆ Yes ◊ No
33. Object Oriented Architecture: ◆ Yes ◆ No

Please describe additional features: Includes two full CD-ROMs of geographic and demographic data.

derived largely from TIGER/LINE files, 1990 census of population and housing, National Highway Planning

Network and Digital Chart of the World. From one CD can address match, route and display using all 36

million plus street segments in TIGER/LINE files. Supports OLE 2.0 optional \$395 programming language, the

GISDK.

PRODUCT NAME: Market Analysis

0	1			
Company Name:				
Contact Person(s):				
Street Address:				
City, State:	Cambridge			
Zip, Country:				
Phone:	44-01223-420414			
Fax:				
Email:	parvis@lsl.co.uk, tim@lsl.co.uk			
1. Type of product:				
	ssing 🗆 AM/FM 🗅 CAD 🗅 Other:			
Lucanica/Descrip				
LICENSING/PRICING				
2 Is the product public de	amain ar commercial?			
2. Is the product public do  ♦ Commercial Product				
	User ■ System ■ Site □ Other: <u>as required</u>			
	■ One Time Charge ■ Other Charge: negotiable			
	ole (bundled hardware & software): ◆ Yes ♦ No			
· · ·				
5. Complete (fully capable	e) software system cost: £29,00 (inclusive of 1st years support)			
USER BASE				
6. Total number of license	ed users: 5_			
<ul><li>6. Total number of license</li><li>7. Number of licensed use</li></ul>				
	ers by continent: Africa:			
	Asia:			
	Asia:Australia:			
	Africa: Asia: Australia: Europe:5			
	Africa:			
7. Number of licensed use	Africa:			
7. Number of licensed use	Africa:			
<ul><li>7. Number of licensed use</li><li>8. Year of first installation</li></ul>	Africa:			
7. Number of licensed use 8. Year of first installation SUPPORT/UPDATES	Africa:			
7. Number of licensed use  8. Year of first installation  SUPPORT/UPDATES  9. Training available: ■ 0	Asia:			
<ul> <li>7. Number of licensed use</li> <li>8. Year of first installation</li> <li>SUPPORT/UPDATES</li> <li>9. Training available: ■ 0</li> <li>10. Software support available</li> </ul>	Asia:			
7. Number of licensed use  8. Year of first installation  SUPPORT/UPDATES  9. Training available: ■ 0  10. Software support availa  11. Cost of support: □ Incl	Asia:			
7. Number of licensed use  8. Year of first installation  SUPPORT/UPDATES  9. Training available: ■ 0  10. Software support availa	Asia:			

DOCUMENT	ration/Interface				
	System documentation available				·
15.	Languages available: ☐ Arabic		□ Bengali	•	☐ French
	☐ German		□ Hindi	· ·	☐ Mandarin
			☐ Russian		☐ Other:
	Online help: ☐ Basic ☐ Contex				
17.	User interface: ☐ Command I				nus
	☐ User-Gener	ated Macros	s ☐ Other:		
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported:	■ UNIX/X-	-Windows 🗆	PC-DOS/Windows	s □ Windows95
	operating cycleme cupperson.				2 □ OS/2 WARP
			/IS □ Other:_		2 2 3 3 7 2 7 7 7 1 1 1
	If UNIX/X-Windows, list vendors a				l: Ultrix - Digital:
	Sun/OS. Solaris - SUN		a.ragere eap <sub>l</sub>		United Digitals
19.	Minimum hardware configuration	n: 64 MB	(RAM), 400 M	1B (min.) H/D spac	e avail HP (9000.
	733, 750), CRX color graphics, HF				·
	models, GX color graphics, Solaris				•
	skyways color graphics, AIX 3L, Fo			•	, ( 3333),
20.	Devices supported:	·····	, , , , , , , , , , , , , , , , , , ,	<del></del>	
	эт таке саррения.	INPUT		OUT	PUT
	■ Digitizers:	_		00.	
	■ Frame Grabbers:				
	Scanners:				
	□ GPS:				
	CD-ROM:				
	Diskette:				
	■ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
	□ Others:				
21. Sou	rce code available: ♦ Yes: ■ C	□ C++ □	FORTRAN	⊒ Pascal □ Othe	r:
	iloc code available. V 105.				
	♦ No				
22. Bato					
	♦ No	access: ◆	Yes: □ C □	C++ □ FORTRA	N
	♦ No ch capability: ♦ Yes ♦ No	access: ◆		C++ □ FORTRA al □ Other:	
	♦ No ch capability: ♦ Yes ♦ No				
23. Link	♦ No ch capability: ♦ Yes ♦ No	<b>♦</b>	□ Pasc No		
23. Link	♦ No ch capability: ◆ Yes ♦ No kable libraries for data structure a	<b>♦</b>	□ Pasc No		

□ Lotus ■ Oracle □ Paradox □ Progress				
□ Sybase ■ Other: <u>INGRES</u>				
26. Data Exchange Formats Supported	: DXF, ARC/Info, GIF, TIFF			
27. If GIS Product:   Vector Raster				
28. GIS Functionality:				
■ Map Digitizing	■ Map Display & Query			
■ Digital Map Editing	■ Change Map Projections			
■ Topographical Structure	ring ■ Datum Changes			
■ Network Flow Analysis	■ Vector Overlay Analysis			
☐ Cell-based (Raster) Mo	odeling			
☐ Map Composition/Gen	eration   Buffer generation			
■ Raster-Vector Convers	sion			
□ Edgematching	■ Map Joining			
29. Image Processing Functionality:				
☐ Interactive Display	☐ Image Enhancement			
☐ Geometric Rectification	n □ Spatial Filtering			
Image Mosaicking	☐ Fourier Analysis			
Radiometric Correction	ns			
Raster GIS Modeling	☐ Radar Geocoding & Analysis			
☐ Hardcopy Map Comp./	/Anno. ☐ Principal Components Analysis			
☐ Filtering	Density Slicing			
Supervised Classification	on			
30. Multi-user Capability: ♦ Yes ◊ No				
31. Expert system capability: ◊ Yes ◊ N	0			
32. Spatial index supported: ♦ Yes ♦ No	0			

Please describe additional features: 1) Extensible "toolkit" functionality. (Option) 2) Fully integrated development environment.

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: Mobile - G.I.S.

COMPAN	y/Organization		
С	Company Name:	Procis Software Ltd.	
С	Contact Person(s):	Pammi Panesar	
S	treet Address:	Alexander House, Flemming Way	
С	City, State:	Swindon	
Z	ip, Country:	SN1 2NG, UK	
Р	hone:	01793-541200	
F	ax:	01793-541025	
E	mail:	Not reported	
1	. Type of product: ☐ GIS ☐ Image Proces	ssing □ AM/FM □ CAD ■ Other: <u>Mobile GIS</u>	
LICENSIN	IG/PRICING		
2	-		
3	<ol><li>Turnkey system availat</li></ol>	ble (bundled hardware & software): ♦ Yes ◊ No	
4	Basic (minimal) software system cost: variable		
5	5. Complete (fully capable	e) software system cost: variable	
USER BA	<b>ASE</b>		
6	6. Total number of license	ed users: <u>250</u>	
7	. Number of licensed use	ers by continent: Africa:	
		Asia:	
		Australia:	
		Europe: 250	
		North America:	
		South America:	
8	B. Year of first installation	n: <u>1992</u>	
SUPPORT	r/UPDATES		
9	). Training available: ■ (	Courses □ Videos ■ Tutorials □ Other:	
10	<u> </u>	able: □ Worldwide □ Not Available ■ Other: <u>Europe</u>	
11		luded in License ■ Other: Annual charge	
12		nnually □ Semiannually ■ Other:	
13	Cost of updates: ■ Included in License or Maintenance Contract ■ Other: New facilitation extra		

15. La	anguages available: 🗅 Arabic	□ Bengali	■ English	☐ French
	☐ Germa	n 🖵 Hindi	☐ Japanese	□ Mandarin
	☐ Portug	uese 🔲 Russian	□ Spanish	Other: Dutch
16. Oı	nline help: ☐ Basic ■ Contex	t Sensitive 🛭 Hypertext	□ N/A	
17. Us	ser interface:   Command	Line □ Menus ■ Use	r-Customizable Men	us
	☐ User-Gene	rated Macros 🛚 Other:_		
HNICAL/FU	JNCTIONAL			
18. O <sub>l</sub>	perating systems supported:	☐ UNIX/X-Windows	PC-DOS/Windows	□ Windows95
		☐ Windows/NT ☐ Ma	cIntosh ☐ PC-OS/2	2 □ OS/2 WARP
		□ VAX/VMS □ Other:		
19. Mi	inimum hardware configuration	on: Mono/color pen ma	chine for field use a	nd 486 PC for office
	ta management system.			
20. De	evices supported:			
		INPUT	OUT	PUT
	Digitizers:			
	Frame Grabbers:			
	Scanners:			
	GPS:			
	CD-ROM:			
	Diskette:			
	Tape:			
	Displays:		_ <u>Co</u>	lor/mono
	Film Recorders:			
_	Electrostatic Plotters:			
	Pen Plotters:			
	Ink Jet Printers:			<u> </u>
_	Laser Printers:	010 1 1 7		P. 1.4.4.5
	Others: PCMCIA cards, corp.		•	, radio data transfer
1. Source	code available:   Yes:  C	□ C++ □ FORTRAN	☐ Pascal ☐ Other:	<u>:</u>
	♦ No			
	capability: ♦ Yes ♦ No		- a	
3. Linkabl	le libraries for data structure			
			cal 🗆 Other:	
		♦ No		
_	ted Data Base Management S	=	_	
25. Data Ba	ase File Types Supported:	□ dBase □ Foxbase □		ergraph
		□ Lotus □ Oracle □ Pa	_	
		☐ Sybase ☐ Other:		
6. Data Ex	xchange Formats Supported:	not reported		
	Product: ■ Vector ■ Raster			

DOCUMENTATION/INTERFACE

■ Map Digitizing	☐ Map Display & Query
■ Digital Map Editing	☐ Change Map Projections
☐ Topographical Stru	ucturing
□ Network Flow Anal	ysis ☐ Vector Overlay Analysis
☐ Cell-based (Raster	) Modeling
☐ Map Composition/6	Generation ☐ Buffer generation
☐ Raster-Vector Con	version ☐ Line-of-Sight Analysis
□ Edgematching	■ Map Joining
29. Image Processing Functionality	:
☐ Interactive Display	☐ Image Enhancement
☐ Geometric Rectification	ation
☐ Image Mosaicking	☐ Fourier Analysis
☐ Radiometric Correct	ctions
□ Raster GIS Modelii	ng Radar Geocoding & Analysis
☐ Hardcopy Map Co	mp./Anno.
☐ Filtering	☐ Density Slicing
□ Supervised Classifi	cation Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ N	0
31. Expert system capability: ♦ Yes	♦ No
32. Spatial index supported: ♦ Yes	<b>▶</b> No

33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: Mobile - G.I.S. extends corporate GIS to field operators in an easy to use but comprehensive package for portable computers. It enables users to access a very large map and database and collect text and graphical information at source. Its office based management system (MGIMS) provides the same GIS functionality as MGIS for use within the office, but more importantly, it acts as a central point, facilitating the bi-directional data communication between MGIS and any corporate GIS system. It also allows information to be "broadcast" from one MGIS user to all others.

PRODUCT NAME: MultiSpec

COMPANY	/ORGANIZATION					
Co	ompany Name:	Purdue University				
Co	ontact Person(s):	Prof. David Landgrebe, Larry Biehl				
St	reet Address:	EE Building				
Cit	ty, State:	West Lafayette, IN				
Zij	p, Country:	47907-1285, USA				
Ph	none:	317-494-3529				
Fa	nx:	317-494-6951				
En	nail:	landbreb@ecn.purdue.edu, biehl@ecn.purdue.edu				
1.	Type of product: ☐ GIS ■ Image Proces	ssing 🛘 AM/FM 🗘 CAD 🗘 Other:				
LICENSING	S/PRICING					
3. 4.	<ol> <li>Is the product public domain or commercial?         <ul> <li>Public Domain</li> <li>Costs for Distribution/Documentation:Available from Web</li> </ul> </li> <li>Turnkey system available (bundled hardware &amp; software): ◊ Yes ◆ No</li> <li>Basic (minimal) software system cost:</li> <li>Complete (fully capable) software system cost:</li> </ol>					
USER BAS	SE					
6.	Total number of license	ed users: <u>&gt;500</u>				
7.	Number of licensed use	•				
		Asia:				
		Australia:				
		Europe:				
		North America:				
	Voor of first installation	South America:				
0.	Year of first installation					
SUPPORT/	/I IDDATES					
COLLOKIA	OIDAILO					
9.	Training available: 🛭 🤇	Courses ☐ Videos ■ Tutorials ☐ Other:				
10.	Software support availa	able: ☐ Worldwide ■ Not Available ☐ Other:				
11.	Cost of support:  Inc	luded in License				
12.	Software updates: ☐ A	nnually □ Semiannually ■ Other: <u>periodically</u>				
13.	Cost of updates:   Inc	luded in License or Maintenance Contract 🚨 Other:				
Darri	ITATION/INTERFACE					

14.	System documentation availa	ible as: ■ Ha	ardcopy ■ El	ectronic Files	
15.	Languages available: ☐ Arab	ic	□ Bengali	■ English	□ French
	□ Germ		□ Hindi	-	☐ Mandarin
				☐ Spanish	
16.	Online help: ☐ Basic ☐ Cont	•		•	
	User interface: ☐ Comman				nus
	☐ User-Ger	nerated Macros	s 🗆 Other:		
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported	i: □ UNIX/X-	-Windows	PC-DOS/Windows	s □ Windows95
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			ntosh □ PC-OS/2	
			/IS ☐ Other:_		
19.	Minimum hardware configura				th coprocessor and
	Power PC based machines: IBM				•
20.	Devices supported:	·			
		INPUT		OUT	PUT
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	□ GPS:				
	CD-ROM:				
	■ Diskette:				
	☐ Tape:				
	□ Displays:				<u> </u>
	☐ Film Recorders:				
	□ Electrostatic Plotters:			-	
	□ Pen Plotters:				
	■ Ink Jet Printers:			Any Macintosh	•
	■ Laser Printers:			_ <u>An</u>	y Macintosh compatible
	□ Others:				<u> </u>
21. Sou	rce code available: ♦ Yes: □	C UC++ U	FORTRAN L	⊒ Pascal □ Other	<u>:</u>
00 D-1	♦ No				
	ch capability: ♦ Yes ♦ No		v 505	0 = F0DTD44	
23. Link	kable libraries for data structur	e access: ♦			
			No Pasc	al □ Other:	<del></del>
24 Into	grated Data Base Management				
	grated Data Base Management a Base File Types Supported:	-		MS □ INFO □ Inte	orgraph
25. Date	a base File Types Supported.				ergrapri
				adox ☐ Progress	
26 Date	a Exchange Formats Supported		□ Other: BSO_BIS or F		
	IS Product: ☐ Vector ■ Raster	u. IVIALIY DIL,	טוט טום ,טטט וו	<u>ni biliary lullilats</u>	
	Functionality:				
20. GIS	□ Map Digitizing	П	Map Display 8	Ouen	
	☐ Map Digitaling ☐ Digital Map Editing	u		a Query ge Map Projections	s
	- Digital Map Lutting			go map i rojections	J

Topographical Structuring	Datum Changes
□ Network Flow Analysis	Vector Overlay Analysis
☐ Cell-based (Raster) Modeling	□ Surface Modeling
☐ Map Composition/Generation	Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
□ Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	Image Enhancement
Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
<b>30. Multi-user Capability:</b> ♦ Yes ♦ No	
31. Expert system capability: ♦ Yes ♦ No	
<b>32. Spatial index supported:</b> ♦ Yes ♦ No	
33. Object Oriented Architecture: ◊ Yes ◊ No	

Please describe additional features: not reported

PRODUCT NAME: NTF PORTFOLIO

COMPANY	/ORGANIZATION			
_	No.	Landadia O.D.		
	ompany Name:	Longdin & Brownin	ng	
	ontact Person(s):			
	reet Address:		_	
	ity, State:		lamorgan	
Zi	p, Country:			
	none:			
Fa	ax:			
Er	mail:	Compuserv 10027	71,2433	
1.	. Type of product:			
	■ GIS □ Image Proce	essing 🗅 AM/FM	■ CAD □ Other:	
LICENCING	g/Pricing			
LICENSING	G/PRICING			
_				
2.	. Is the product public d		ial?	
	◆ Commercial Pro			
	=		☐ Site ☐ Other:	
	License fee is:	One Time Charg	e ■ Other Charge:	
3.	. Turnkey system availa	ible (bundled hardw	vare & software): ♦ Yes ♦ No	
4.	4. Basic (minimal) software system cost: £600			
5.	5. Complete (fully capable) software system cost: £600			
USER BAS	SE			
6.	. Total number of licens	sed users: 270		
7.			Africa:	
			Asia:	
			Australia:	
			Europe: 270	
			North America:	
			South America:	
8.	Year of first installation	<b>n:</b> 1989		
SUPPORT	/UPDATES			
0	Training available:	Courage D Videos	■ Tutorialo □ Othor:	
9. 10	=		■ Tutorials □ Other:	
10.	• •		□ Not Available □ Other:	
11.	• • •			
12.	=		nually ■ Other: <u>as and when, usually 6 months</u>	
13.	. Cost of updates: ■ In	cluded in License or	Maintenance Contract ☐ Other:	

DOCUMEN.	TATION/INTERFACE				
				-, , ,,	
	System documentation availa				
15.	Languages available: ☐ Arabi		□ Bengali	ū	☐ French
	□ Germ		☐ Hindi		
	□ Portu	guese	□ Russian	□ Spanish	☐ Other:
16.	Online help: ■ Basic □ Conte	ext Sensitive	□ Hypertext	□ N/A	
17.	User interface: ■ Command	d Line ■ M	1enus 🗅 User	-Customizable Mer	nus
	☐ User-Gen	erated Macr	os 🗆 Other:_		
TECHNICA	L/FUNCTIONAL				
18.	Operating systems supported				
				cIntosh 🗆 PC-OS/2	2 LI OS/2 WARP
			/MS □ Other:	<del> </del>	
	Minimum hardware configurat	ion: <u>PC/D</u>	OOS - 640K		
20.	Devices supported:				
		INPUT		OUT	PUT
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	☐ GPS:				
	■ CD-ROM: DOS compat.				
	■ Diskette: DOS compat.			_ DC	OS file or screen
	□ Tape:				
	□ Displays:				
	☐ Film Recorders:				
	□ Electrostatic Plotters:				
	□ Pen Plotters:				
	☐ Ink Jet Printers:				
	□ Laser Printers:				
	☐ Others:				
	□ Laser Printers:				
21. Sou	urce code available: ♦ Yes: ■	C ■ C++	□ FORTRAN	□ Pascal □ Other	r:
	♦ No				
22. Bat	ch capability: ♦ Yes ◊ No				
	kable libraries for data structure	access.	♦ Yes· ■ C.	■C++ □ FORTRA	N
20. Liii	Rabic libraries for data structure	, 400033.		cal □ Other:	
		,	⊐ rası ♦ No	cai 🗖 Other	<del></del>
24 lm±-	agrated Data Baca Managament				
	egrated Data Base Management	-		IMO = IN=0 = : :	
25. Dat	a Base File Types Supported:			IMS □ INFO □ Int	ergraph
				radox 🛚 Progress	
			e □ Other:		
26 Dat	a Evchange Formats Supported	<ul> <li>Anv ASC</li> </ul>	`II		

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27. If GIS Product: ■ Vector □ Raster

28. GIS Functionality:

Map Digitizing	■ Map Display & Query
Digital Map Editing	Change Map Projections
■ Topographical Structuring	□ Datum Changes
Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	Surface Modeling
■ Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	■ Map Joining
29. Image Processing Functionality:	
□ Interactive Display	Image Enhancement
Geometric Rectification	□ Spatial Filtering
Image Mosaicking	□ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	
33. Object Oriented Architecture: ♦ Yes ◊ No	

Please describe additional features: Autodesk compliant and standalone DOS/Windows

PRODUCT NAME: OrthoMax

Сомра	NY/ORGANIZATION				
	Company Name:	Vision International, of Autometric, Inc.			
	Contact Person(s):	Richard Mckay			
;	Street Address:	5301 Shawnee Road			
	City, State:	Alexandria, VA			
	Zip, Country:	22312, USA			
	Phone:	703-658-4000			
	Fax:	703-658-4426			
	Email:	mckay@autometric.com			
	Type of product:     □ GIS    Image Proces  NG/PRICING	ssing 🛘 AM/FM 🗘 CAD 🗘 Other:			
2.02.10.					
	2. Is the product public domain or commercial?  ◆ Commercial Product  Licensed by: □ User ■ System □ Site □ Other:  License fee is: ■ One Time Charge □ Other Charge:				
	3. Turnkey system available (bundled hardware & software): ◆ Yes ◇ No 4. Basic (minimal) software system cost: \$20,000				
		e) software system cost: \$30,000			
	c. complete (range capacite	, co			
USER B	ASF				
OOLK D					
	6. Total number of license	ad usares 500			
	7. Number of licensed use				
	7. Number of ficensed use	Asia: 30			
		Australia: 15			
		Europe: 100			
		North America: 300			
		South America: 50			
	8. Year of first installation				
SUPPOR	RT/UPDATES				
<u> </u>					
	<u>-</u>	Courses U Videos U Tutorials U Other:			
	• •	able: ■ Worldwide □ Not Available □ Other:			
		luded in License ■ Other: 15%			
		nnually ■ Semiannually □ Other:			
1	3 Cost of undates: ■ Inc.	luded in License or Maintenance Contract □ Other:			

14.	System documentation availab	le as: ■ Hardcopy	<ul><li>Electronic Files</li></ul>	
15.	Languages available: ☐ Arabic	☐ Bengal	i ■ English	☐ French
	☐ Germa	n 🗅 Hindi	□ Japanese	☐ Mandarin
	☐ Portugi	uese 🛚 Russia	n □ Spanish	☐ Other:
16.	Online help: ☐ Basic ☐ Contex			
	User interface: ☐ Command	• •		us
	□ User-Gene	rated Macros   Other	er: GUI	
TECHNICAL	/Functional			
1 201 11 11 07 12	21 011011011012			
18.	Operating systems supported:	■ UNIX/X-Windows	□ PC-DOS/Windows	s □ Windows95
		☐ Windows/NT ☐	MacIntosh ☐ PC-OS/2	2 □ OS/2 WARP
		□ VAX/VMS □ Oth	ner:	
	If UNIX/X-Windows, list vendors a	nd window managers	supported: Silicon G	raphics Sun_
19.	Minimum hardware configuration	on: SUN SparcStati	<u>on</u>	
20.	Devices supported:			
	•	INPUT	OUT	PUT
	☐ Digitizers:			
	☐ Frame Grabbers:			
	☐ Scanners:			
	□ GPS:			
	□ CD-ROM:			
	☐ Diskette:			
	☐ Tape:			
	☐ Displays:			
	☐ Film Recorders:			
	□ Electrostatic Plotters:			
	☐ Pen Plotters:			
	☐ Ink Jet Printers:			
	☐ Laser Printers:			
	☐ Others:			
21. Sou	rce code available: ♦ Yes: ☐ C	□ C++ □ FORTRA	N □ Pascal □ Other	<u>:</u>
	♦ No			
22. Bate	ch capability: ♦ Yes ◇ No			
23. Link	cable libraries for data structure	access: ♦ Yes: □ (	C C++ FORTRAI	N
		□ F	Pascal 🛘 Other:	
		♦ No		
24. Inte	grated Data Base Management S	System: ♦ Yes ◇ No		
	a Base File Types Supported:	-	: □ IMS □ INFO □ Into	ergraph
			Paradox □ Progress	
		☐ Sybase ☐ Other:_	· ·	
26. Data	a Exchange Formats Supported:			

27. If GIS Product: ☐ Vector ☐ Raster

28. GIS Functionality:	
Map Digitizing	☐ Map Display & Query
Digital Map Editing	Change Map Projections
■ Topographical Structuring	Datum Changes
□ Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	■ Surface Modeling
Map Composition/Generation	Buffer generation
□ Raster-Vector Conversion	□ Line-of-Sight Analysis
Edgematching	□ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	■ Image Enhancement
■ Geometric Rectification	■ Spatial Filtering
■ Image Mosaicking	☐ Fourier Analysis
■ Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	Principal Components Analysis
■ Filtering	<ul><li>Density Slicing</li></ul>
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ♦ Yes ◊ No	

**33. Object Oriented Architecture:** ♦ Yes ◊ No

Please describe additional features: Developed for the GIS community, OrthoMax is high performance soft-copy terrain mapping and precise geopositioning. OrthoMax is sold as a module of ERDAS Imagine.

PRODUCT NAME: PAMAP GIS v4.2

Сомра	NY/ORGANIZATION	
(	Company Name:	EPS Essential Planning Systems Ltd.
(	Contact Person(s):	Alison Malis, Marketing Communications Mgr.
;	Street Address:	6772 Oldfield Road, Suite 200
	City, State:	Victoria, B.C.
:	Zip, Country:	V8M 2A2, Canada
l	Phone:	604-652-8895
I	Fax:	604-652-8896
	Email:	marketing@eps.bc.ca
	1. Type of product:  ■ GIS □ Image Proces	ssing □ AM/FM □ CAD □ Other:
LICENSI	NG/PRICING	
	License fee is: 3. Turnkey system availal	
	5. Complete (fully capable	e) software system cost: up to \$20,500 US
USER B	BASE	
	6. Total number of license	ed users: 1000+
	7. Number of licensed use	ers by continent: Africa: 75
		Asia: 150
		Australia:
		Europe:
		North America: 725
		South America: 50
	8. Year of first installation	: <u>1986</u>
SUPPOR	RT/UPDATES	
1	<ul><li>0. Software support available</li><li>1. Cost of support:  Inc</li></ul>	Courses □ Videos ■ Tutorials □ Other:  able: ■ Worldwide □ Not Available □ Other:  luded in License ■ Other: \$2.500/yr
	•	nnually

		Electronic Files	
15. Languages available:   Arabic	□ Bengali	■ English	☐ French
☐ Germa	an 🗅 Hindi	□ Japanese	■ Mandarin
□ Portug	uese 🔲 Russian	□ Spanish	□ Other:
<b>16. Online help:</b> □ Basic □ Contex		□ N/A	
17. User interface: ■ Command	Line ■ Menus ■ Use	r-Customizable Men	us
■ User-Gene	erated Macros   Other:		
INICAL/FUNCTIONAL			
18. Operating systems supported:	☐ UNIX/X-Windows	■ PC-DOS/Windows	■ Windows95
	■ Windows/NT □ Ma		
	□ VAX/VMS □ Other		
19. Minimum hardware configurati			OOS 5.0 or higher, MS
Windows 3.1, Windows for Work			-
RAM or greater, 256-color display	•		• •
20. Devices supported:			
•	INPUT	OUT	PUT
■ Digitizers:			
■ Frame Grabbers:			
Scanners:			
■ GPS:			
CD-ROM:			
■ Diskette:			
■ Tape:			
☐ Displays:			
☐ Film Recorders:			
_ =			
■ Electrostatic Plotters:			
■ Electrostatic Plotters: ■ Pen Plotters:			
■ Pen Plotters:			
<ul><li>■ Pen Plotters:</li><li>■ Ink Jet Printers:</li></ul>			
<ul><li>■ Pen Plotters:</li><li>■ Ink Jet Printers:</li><li>■ Laser Printers:</li><li>□ Others:</li></ul>			
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: ■ Source code available: ◊ Yes: □ C		□ Pascal □ Other	
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: ■ Source code available: ♦ Yes: □ C		□ Pascal □ Other	
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Source code available: ◊ Yes: □ C ◆ No  2. Batch capability: ◆ Yes ◊ No	C++ □ FORTRAN		<u>:</u>
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: ■ Source code available: ♦ Yes: □ C	C++ □ FORTRAN		<u>:</u>
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Source code available: ◊ Yes: □ C ◆ No  2. Batch capability: ◆ Yes ◊ No	access: ◆ Yes: ■ C		:
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Source code available: ◊ Yes: □ C ◆ No  2. Batch capability: ◆ Yes ◊ No	access: ◆ Yes: ■ C	□ C++ □ FORTRAN	:
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Source code available: ◊ Yes: □ C ◆ No  2. Batch capability: ◆ Yes ◊ No	C □ C++ □ FORTRAN  access: ◆ Yes: ■ C □ Pas ◇ No	□ C++ □ FORTRAN	:
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Others: □ No ■ No ■ Batch capability: ◆ Yes ◇ No ■ Linkable libraries for data structure	C □ C++ □ FORTRAN  access: ◆ Yes: ■ C □ Pas ◇ No	□ C++ □ FORTRAN cal □ Other:	N
■ Pen Plotters: ■ Ink Jet Printers: ■ Laser Printers: □ Others: □ Source code available: ◇ Yes: □ C ◆ No  2. Batch capability: ◆ Yes ◇ No 3. Linkable libraries for data structure  3. Integrated Data Base Management S	access: ◆ Yes: ■ C □ Pas ◇ No  System: ◆ Yes ◇ No	□ C++ □ FORTRAN cal □ Other: IMS □ INFO □ Inte	N

## USGS DEM, SIF, SVF, Generic Raster format (user-defined)

27. If GIS Product:   Vector Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
■ Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
■ Raster-Vector Conversion	■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
□ Interactive Display	☐ Image Enhancement
□ Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ♦ Yes ◊ No	
32. Spatial index supported: ♦ Yes ◊ No	

Please describe additional features: PAMAP GIS is an integrated raster/vector/database system designed for use on the PC platform. It emphasizes ease of use, offers a full suite of cartographic tools for high quality presentations, provides comprehensive functionality - from simple queries to 3D modelling - and has a development environment for user-interface customization. PAMAP GIS is comprised of seven modules and ten data translators. Users need only purchase the modules required for their application. PAMAP has installations worldwide primarily in the natural resource, environmental and land management areas.

33. Object Oriented Architecture: ◊ Yes ♦ No

PRODUCT NAME: PC-GPS

COMPANY	ORGANIZATION			
Co	mpany Name:	Corvallis Microtechnology, Inc.		
Co	ntact Person(s):	Eric Gakstatter		
Str	reet Address:	413 SW Jefferson Ave.		
Cit	y, State:	Corvallis, OR		
Zip	o, Country:	97333, USA		
Ph	one:	503-752-5456		
Fa	x:	503-752-4117		
Em	nail:	ericpg@peak.org		
1.		ing □ AM/FM ■ CAD □ Other:		
LICEIVOIIVO	71 KICING			
	License fee is: ■ Turnkey system availabl	User ■ System ■ Site □ Other: □ One Time Charge □ Other Charge: • (bundled hardware & software): ◆ Yes ◊ No		
	4. Basic (minimal) software system cost: US\$1430.00			
5.	5. Complete (fully capable) software system cost: <u>US\$1430.00</u>			
USER BAS	SE .			
6.	Total number of licensed	lusers: N/A		
	Number of licensed user			
		Asia: N/A		
		Australia: N/A		
		Europe: N/A		
		North America: N/A		
		South America: N/A		
8.	Year of first installation:	1993		
			1	
SUPPORT/	UPDATES			
9.	Training available:	ourses 🗆 Videos 🗅 Tutorials 🗅 Other:		
10.		ole: ■ Worldwide □ Not Available □ Other:		
11.		ded in License  Other:		
		nually Semiannually Other:		
12.	<del>-</del>	uded in License or Maintenance Contract    Other: Varies		

14.	System documentation availab	le as: ■	Hardcopy □ E	Electronic Files		
	Languages available: ☐ Arabic		□ Bengali	■ English	☐ French	
	□ Germa		□ Hindi	□ Japanese	☐ Mandarin	
	□ Portugi		☐ Russian	■ Spanish	☐ Other:	
16.	Online help: ■ Basic ■ Contex			· ·		
17.				-Customizable Men	us	
			cros 🗆 Other:			
	2 3001 30113	ratou mac				
TECHNICAL	L/FUNCTIONAL					
10	Operating systems supported:		//Y-Windows =	I PC-DOS/Mindows	Nindowe95	
10.	Operating systems supported.			cIntosh 🗖 PC-OS/2		
			VMS ☐ Other:		2 4 03/2 WARE	
19	Minimum hardware configuration		=	<u>'</u>		
20.	<del>-</del>	on. <u>+00</u>	DA, ZIVID ITAIVI,	TOOIVID Flata disk	-	
20.	Devices supported.	INPUT		OUT	PUT	
	■ Digitizers:	_		001	roi	
	Frame Grabbers:					
	Scanners:					
	■ GPS:  ■ CD-ROM:					
	■ Diskette: ■ Tape:					
	■ Tape: ■ Displays:		,			
	☐ Film Recorders:			<del></del>		
	■ Electrostatic Plotters:					
	Pen Plotters:					
	Ink Jet Printers:					
	■ Laser Printers:				-	
	☐ Others:					
21. Sou	rce code available: ♦ Yes: □ C	□ C++	□ FORTRAN	□ Pascal □ Other	:	
	♦ No				<u></u>	
22. Bat	ch capability: ♦ Yes ♦ No					
	kable libraries for data structure	access:	♦ Yes: □ C ■	■ C++ □ FORTRAI	V	
				cal ■ Other: VBA		
			♦ No	5a. <b>–</b> 5a. 6 <u>757</u>	<u></u>	
24. Inte	grated Data Base Management S	System: 4				
	a Base File Types Supported:	=		IMS □ INFO □ Into	eraranh	
20. Dat	a zace i ne rypes cupporteu.			radox □ Progress	o. g.upii	
			e ■ Other: OD	•		
26 Dat	a Exchange Formats Supported:	•	· · · · · · · · · · · · · · · · · · ·	<u>,55</u>		
	a Exchange Formats Supported.  IS Product: ■ Vector □ Raster	LOINIO	παροπιο, ΔΛΙ			
	Functionality:					
20. GIS	i unolionanty.					

■ Ma	ap Digitizing	■ Map Di	isplay & Query
<b>■</b> Di	gital Map Editing		Change Map Projections
□ To	pographical Structuring		Datum Changes
□ Ne	etwork Flow Analysis		l Vector Overlay Analysis
□ Ce	ell-based (Raster) Modeling		3 Surface Modeling
□ Ma	ap Composition/Generation		Buffer generation
□ Ra	aster-Vector Conversion		Line-of-Sight Analysis
□ Ed	Igematching		1 Map Joining
29. Image Processin	g Functionality:		
□ Int	eractive Display		I Image Enhancement
□ Ge	eometric Rectification	□ Spatial	Filtering
□ Im	age Mosaicking		l Fourier Analysis
□ Ra	adiometric Corrections		Multivariate/Statistical Analysis
□ Ra	aster GIS Modeling		Radar Geocoding & Analysis
□ Ha	ardcopy Map Comp./Anno.		Principal Components Analysi
□ Fil	tering		Density Slicing
□ Su	pervised Classification		Unsupervised Classification
30. Multi-user Capab	ility: ◊ Yes ♦ No		
31. Expert system ca	apability: ◊ Yes ♦ No		
32. Spatial index sup	ported: ◊ Yes ♦ No		

33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: PC-GPS is a complete Windows-based GPS program that is a companion product for the MC-GPS field data collection unit. It includes satellite planning, map editting, GIS export, Differential correction using base station data from other manufacturers' base stations. PC-GPS is an OLE compliant program and also supports ODBC. Together with the MC-GPS, PC-GPS is a complete GPS data collection system for digitizing information in the field.

PRODUCT NAME: PRISM

COMPAN	IY/ORGANIZATION			
_	Name and Manager		200 les	
	Company Name:		SCO, Inc.	
	Contact Person(s):	Jacques Huyghe		
	Street Address:	-	ve	
	City, State:			
	Zip, Country:	95035, USA		
	Phone:	408-432-3400	_	
	ax:	408-433-0965		
E	Email:	jhuyghe@i2s.com	<u> </u>	
1	I. Type of product: ☐ GIS ☐ Image Proces	ssing 🛭 AM/FM	□ CAD ■ Other: <u>Photogrammetry</u>	
LICENSIN	NG/PRICING			
3	License fee is:	duct User ■ System One Time Charg Die (bundled hardw re system cost:_\$	■ Site ■ Other: <u>networked floating licenses</u> ge ■ Other Charge: <u>maintenance</u> ware & software): ◆ Yes ◇ No 612,000	
USER B	ASE			
	6. Total number of license			
7	7. Number of licensed us	ers by continent:	Africa: 5	
			Asia: 20	
			Australia:	
			Europe: 20	
			North America: 25	
8	3. Year of first installation	ı: 1992	South America:	
SUPPOR	T/UPDATES			
(	9. Training available: ■ (	Courses 🗆 Videos	s ■ Tutorials □ Other:	
10			e □ Not Available □ Other:	
11	• •			
12		-	nually Other:	
13	o. Cost of updates:	iluaea in License or	Maintenance Contract 🚨 Other:	

DOCUMEN.	ITATION/INTERFACE				
14	System documentation availab	nle as: ■ Ha	ardcony <b>=</b> F	lectronic Files	
	Languages available:   Arabid		□ Bengali		■ French
13.	□ Germa		☐ Hindi	•	
	□ Portug			<ul><li>■ Spanish</li></ul>	☐ Other:
46		-		•	d Other
	Online help: ■ Basic ■ Conte				
17.				-Customizable Menu	ıs
	u User-Gene	erated Macros	s u Other:_		
_					
TECHNICA	L/FUNCTIONAL				
18.	Operating systems supported:	: ■ UNIX/X-	-Windows 🖵	PC-DOS/Windows	☐ Windows95
				Intosh 🗆 PC-OS/2	
	If UNIX/X-Windows, list vendors a		· <del>-</del>		HP, SUN only for
	STERO_				
19.	Minimum hardware configurati	ion: 64MB	of memory, 30	00MB of disk space	
	Devices supported:		•	•	_
		INPUT		OUT	PUT
	■ Digitizers: mouse, Calcomp, /	_	agraphic		
	■ Frame Grabbers: Workstation				
	■ Scanners: all TIFF, PostScrip	-			
	■ GPS: support for ASCII, XYZ				
	■ CD-ROM:				
	- B. L				
	■ Tape: 8mm, 9 track, 1/4 QIC				
	■ Displays:			_All '	Window
	■ Film Recorders:			All TIFF and Po	ostScript
	■ Electrostatic Plotters:			All TIFF and Po	ostScript
	■ Pen Plotters:			_All	TIFF and PostScript
	■ Ink Jet Printers:			All TIFF and Po	ostScript
	■ Laser Printers:			_All	TIFF and PostScript
	☐ Others:				
21. Sou	ur <mark>ce code available:</mark> 🜣 Yes: 🗖 C	C 🗆 C++ 🗅	FORTRAN	□ Pascal □ Other:	
	◆ No				
22. Bat	tch capability: ♦ Yes ◇ No				
23. Lin	kable libraries for data structure	access: ♦	Yes: ■C □	C++ ■ FORTRAN	I
			☐ Pasc	cal □ Other:	<u> </u>
		$\Diamond$	No		
24. Inte	egrated Data Base Management	System: ♦ Ye	es ♦ No		
25. Dat	ta Base File Types Supported:	□ dBase □	Foxbase □ I	IMS □ INFO □ Inte	ergraph
		☐ Lotus ☐	Oracle □ Par	radox 🛚 Progress	

□ Sybase □ Other:\_

26. Data Exchange Formats Supported: ERDOS, BIC, BSQ, TIFF, DXF

- 27. If GIS Product: □ Vector Raster
- 28. GIS Functionality:
  - Map Digitizing
  - Digital Map Editing
  - ☐ Topographical Structuring
  - Network Flow Analysis
  - Cell-based (Raster) Modeling
  - Map Composition/Generation
  - ☐ Raster-Vector Conversion
  - Edgematching
- 29. Image Processing Functionality:
  - Interactive Display
  - Geometric Rectification
  - Image Mosaicking
  - Radiometric Corrections
  - Raster GIS Modeling
  - Hardcopy Map Comp./Anno.
  - Filtering
  - Supervised Classification
- 30. Multi-user Capability: ♦ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ♦ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - □ Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: not reported

PRODUCT NAME: RootsPRO

COMPANY	/ORGANIZATION			
Co	ompany Name:	Decision Images, Inc.		
Co	ontact Person(s):	Bob Mills		
Str	reet Address:	PO Box 513		
Cit	ty, State:	Princeton, NJ		
Zip	o, Country:	08542, USA		
Ph	ione:	609-683-0234		
Fa	x:	609-683-4068		
Em	nail:	decision@tigger.jvnc.net		
	•	sing 🗆 AM/FM 🗀 CAD 🗀 Other:		
LICENSING	s/Pricing			
3. 4.	License fee is: I Turnkey system availab Basic (minimal) softwar			
USER BAS	SE .			
6.	Total number of license	d users: 400+		
7.	Number of licensed use	rs by continent: Africa:		
		Asia:		
		Australia:		
		Europe:		
		North America:		
		South America:		
8.	Year of first installation:	: <u>1990</u>		
SUPPORT/	UPDATES			
	Tuelning overliebles 5.0	D. Videos D. Tutariala D. Othoru		
9.	_	Courses Uvideos Uvideo		
10.				
11.				
		nnually □ Semiannually ■ Other: <u>when done!</u>		

DOCUMEN	IA HON/INTERFACE				
14	System documentation available	ole as· ■ ⊦	lardcony □ F	lectronic Files	
	Languages available: ☐ Arabid		□ Bengali		□ French
10.	☐ Germa		☐ Hindi	-	☐ Mandarin
				☐ Spanish	
16	Online help: ☐ Basic ☐ Conte	-		· ·	<u> </u>
	User interface: ☐ Command				ue
17.			os 🛘 Other:		us
	G Oser-Gene	sialeu Maci	os 🗖 Other		
TECHNICAL	L/FUNCTIONAL				
TECHNICAL	DI UNCTIONAL				
18.	Operating systems supported:	UNIX/	K-Windows ■	PC-DOS/Windows	☐ Windows95
				Intosh ☐ PC-OS/2	2 □ OS/2 WARP
			MS ☐ Other:_		
19.	Minimum hardware configurat	ion: <u>386/4</u>	86 with 4MB R	AM, Mac with 4MB	RAM
20.	Devices supported:				
		INPUT		OUT	PUT
	■ Digitizers: all serial tablets				
	☐ Frame Grabbers:				
	☐ Scanners:				
	☐ GPS:				
	□ CD-ROM:				
	■ Diskette: dxf, many other form				
	□ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	☐ Ink Jet Printers:				
	☐ Laser Printers:				
24 500	Others:				
21. 300	urce code available: ♦ Yes: ☐ ( ♦ No	, u C++ (	J FOR I KAIN	⊒ Pascai □ Otner	·
00 D-4					
	ch capability: ◊ Yes ♦ No		. V D.O. D	O D FORTRAIN	
23. Lini	kable libraries for data structure	access: <			
				al □ Other:	<u> </u>
24 Into	sereted Data Base Management		No A No		
	grated Data Base Management	=		MO DINEO DIST	
25. Dat	a Base File Types Supported:			MS 🗆 INFO 🗅 Inte	ergrapn
				adox □ Progress	
00.5	- Fushana Fan ( O )	=	Other:		
26. Data	a Exchange Formats Supported	<u>: DXF, AR</u>	<u>C/INFO GEN, [</u>	DLG, many others	_

27. If GIS Product: ■ Vector □ Raster

28. GIS Functionality:

■ Map Digitizing	□ Map Display & Query
■ Digital Map Editing	Change Map Projections
■ Topographical Structuring	□ Datum Changes
Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	□ Surface Modeling
Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
■ Edgematching	□ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
Geometric Rectification	☐ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ♦ No	
31. Expert system capability: ◊ Yes ♦ No	
32. Spatial index supported: ◊ Yes ♦ No	
33. Object Oriented Architecture: ◊ Yes ♦ No	

Please describe additional features: not reported

PRODUCT NAME: RTView

Сомрам	NY/ORGANIZATION				
(	Company Name:	Trix Systems, Inc.			
(	Contact Person(s):	Chris Sweetnam			
5	Street Address:	68 Smith St.			
(	City, State:	Chelmsford, MA			
Z	Zip, Country:	01824, USA			
F	Phone:	800-326-4443 or 508-256-4445			
F	Fax:	508-256-9593			
E	Email:	swwetnam@trixsystems.com			
	1. Type of product: ☐ GIS ■ Image Proces	sing ■ AM/FM ■ CAD □ Other:			
LICENSII	NG/PRICING				
;	License fee is: 1 3. Turnkey system availab 4. Basic (minimal) softwar	luct User ■ System □ Site □ Other: \$130-1,500 ■ One Time Charge □ Other Charge: ble (bundled hardware & software): ◊ Yes ◆ No			
USER B	ASE				
	6. Total number of license	ad users: 200			
	7. Number of licensed use				
	7. Humber of hoomeed doc	Asia:			
		Australia:			
		Europe:			
		North America:			
		South America:			
;	8. Year of first installation				
SUPPOR	T/UPDATES				
9	9. Training available: 🛭 🤇	Courses □ Videos □ Tutorials ■ Other: <u>Consulting</u>			
10	0. Software support availa	able: ■ Worldwide □ Not Available □ Other:			
1	1. Cost of support: ■ Incl				
1:	2. Software updates: 🗆 A	nnually □ Semiannually ■ Other:			
1:	3 Cost of undates: □ Inc	luded in License or Maintenance Contract   Other			

DOCUM	ENTATION/INTERFACE					
4	4 System decumentation availab	olo oo. ■ ⊔	ordoony = E	lastronia Eilas		
	<ul><li>4. System documentation available.</li><li>5. Languages available:   Arabic</li></ul>				□ Franch	
1	•		□ Bengali	•	□ French	
	■ Germa		☐ Hindi	•		
			Russian	•	■ Other: <u>Swedish</u>	
	6. Online help: ☐ Basic ☐ Conte					
1	7. User interface:   Command				us	
	☐ User-Gene	erated Macro	s 🗆 Other:			
_						
TECHNI	CAL/FUNCTIONAL					
1	8. Operating systems supported:	□ UNIX/X	(-Windows ■	PC-DOS/Windows	■ Windows95	
	3 3,500			Intosh □ PC-OS/2		
			MS ☐ Other:_			
1	9. Minimum hardware configurati					
	20. Devices supported:	<u></u>				
_	Sevices supported.	INPUT		OUT	PIIT	
	☐ Digitizers:	_		001		
	☐ Frame Grabbers:					
	☐ Scanners:					
	□ GPS: □ CD-ROM:					
	☐ Diskette:					
	☐ Tape:					
	☐ Displays:					
	☐ Film Recorders:					
	■ Electrostatic Plotters:			-		
	Pen Plotters:			_		
	■ Ink Jet Printers:					
	■ Laser Printers:					
	☐ Others:					
21. 5	Source code available: ♦ Yes: ■ (	C ■ C++ □	FORTRAN	☐ Pascal ☐ Other	<u> </u>	
	♦ No					
22. E	Batch capability: ♦ Yes ◆No					
	inkable libraries for data structure	access: ◊	Yes: □C □	C++ 🗆 FORTRAN	I	
			□ Pasc	al 🛘 Other:		
		♦	No	a oo	<del>_</del>	
24. I	ntegrated Data Base Management 9	Svstem: ♦ \	∕es ◊ No			
	Data Base File Types Supported:	-		MS □ INFO □ Inte	ergraph	
				adox □ Progress	- ⊌ -1···	
			Other:	-		
26. [	Data Exchange Formats Supported	-				
	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:

□ Map Display & Query
□ Change Map Projections
□ Datum Changes
Vector Overlay Analysis
□ Surface Modeling
Buffer generation
☐ Line-of-Sight Analysis
☐ Map Joining
Image Enhancement
☐ Spatial Filtering
☐ Fourier Analysis
☐ Multivariate/Statistical Analysis
□ Radar Geocoding & Analysis
Principal Components Analysis
□ Density Slicing
Unsupervised Classification

32. Spatial index supported: ◊ Yes ◊ No33. Object Oriented Architecture: ◊ Yes ◊ No

Please describe additional features: <u>Trix Systems, Inc. provides software applications for automatic paper-to-CAD (raster to vector) conversion, scanning, viewing, redlining, image file format conversion (including vector to raster), network based engineering document management and facilities management.</u>

PRODUCT NAME: R2V for Windows/NT

COMPANY	//ORGANIZATION		
Co	ompany Name:	Able Software Company	
Co	ontact Person(s):	Dr. Yecheng Wu	
St	treet Address:	5 Appletree Lane	
Ci	ity, State:	Lexington, MA	
Zi	p, Country:	02173, USA	
Pł	hone:	617-862-2804	
Fa	ax:	617-862-2640	
Er	mail:	able@world.std.com	
	. Type of product: ☐ GIS ☐ Image Proces	ssing □ AM/FM □ CAD ■ Other: <u>Raster to vector conversion</u>	
3. 4.	License fee is: Turnkey system availal Basic (minimal) softwa		
USER BA	SE		
6.	. Total number of license	ed users: 103_	
7.			
		Asia: 30	
		Australia: 2	
		Europe: <u>20</u>	
		North America: 40	
		South America: 10	
8.	. Year of first installation	i <u>1994</u>	
SUPPORT	/UPDATES		
9.	_	Courses ☐ Videos ■ Tutorials ☐ Other:	
10.		able: ■ Worldwide □ Not Available □ Other:	
11.			
		nnually ■ Semiannually □ Other:	
13	Cost of undates:	cluded in License or Maintenance Contract	

14	System documentation available	nle as: ■	Hardcopy ■ F	lectronic Files	
	Languages available:   Arabic		□ Bengali		☐ French
13.	□ Germa		☐ Hindi	•	☐ Mandarin
				•	
46			□ Russian		☐ Other:
	Online help: ☐ Basic ☐ Conte				
17.	User interface: ☐ Command				us
	☐ User-Gene	erated Mac	ros 🗆 Other:_		
TECHNICAL	L/FUNCTIONAL				
18.	Operating systems supported:	■ Windo		cIntosh □ PC-OS/2	
19	Minimum hardware configurat		<del>-</del>		Idisk space SVGA
13.	display_	1011. <u>+00</u>	1 O of better, 41	VID TO IVI, TIVID HATC	disk space, over
20	Devices supported:				
20.	Devices supported.	INPUT		OUT	PUT
	D. Digitigage	_		001	FUI
	☐ Digitizers:				
	☐ Frame Grabbers:				
	Scanners:				
	□ GPS:				
	CD-ROM:				
	Diskette:				
	■ Tape:				
	■ Displays:				
	■ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
21. Sou	☐ Others: Irce code available: ◇ Yes: ☐ C	C 🗆 C++	☐ FORTRAN	 □ Pascal □ Other	 :
	♦ No				
	<b>ch capability: ◆</b> Yes ◇ No				
23. Lini	kable libraries for data structure	access:	♦ Yes: ☐ C	C++ □ FORTRAN	N
			☐ Paso	cal □ Other:	
			♦ No		
24. Inte	grated Data Base Management	System: ◊	Yes ♦ No		
25. Data	a Base File Types Supported:	■ dBase	□ Foxbase □	IMS □ INFO □ Inte	ergraph
		□ Lotus	□ Oracle □ Pa	radox 🛚 Progress	
			e □ Other:	-	
26. Dat	a Exchange Formats Supported	<del>-</del>			IFF, SPOT

27. If GIS Product: ■ Vector ■ Raster

## 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- □ Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - □ Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - ☐ Fourier Analysis
  - Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - Unsupervised Classification

Please describe additional features: R2V generates vector data automatically from scanned maps, aerial photos or satellite imagery in color or black-white. R2V provides complete on-screen vector editing functionalities and supports map registration to a user specified projection system.

PRODUCT NAME: SHL VISION\* Solutions

Сомра	ANY/	ORGANIZATION			
	Cor	mpany Name: SHL Systemhous	e, Inc.		
	Cor	ntact Person(s): Karen Westwood			
	Str	eet Address: 50 O'Connor Stre	eet, Suite 501		
	City	y, State: Ottawa, Ontario			
	Zip	, Country: K1P 6L2, Canada	<u>a</u>		
	Pho	one: 613-236-9734			
	Fax	:613-567-5433			
	Em	ail: <u>kwestwood@gis.</u> s	shl.com		
	1.	Type of product: ■ GIS □ Image Processing □ AM/FM	□ CAD □ Other: Spatial data management		
LICENS	SING/	PRICING			
	<ol> <li>3.</li> </ol>	License fee is: ■ One Time Charg	☐ Site ■ Other: <u>Company, # of concurrent users</u>		
	4.	Basic (minimal) software system cost: \$10 K			
	<b>5</b> .	Complete (fully capable) software system cost: enterprise and configuration dependent			
USER I	Basi				
	6	Total number of licensed users: over 50	00.		
	7.	Number of licensed users by continent:			
	٠.	rumber of neerised users by continent.	Asia:		
			Australia:		
			Europe:		
			North America:		
			South America:		
	8.	Year of first installation: 1990			
SUPPO	RT/L	JPDATES			
	9.	Training available: ■ Courses □ Videos			
	10.	Software support available: ■ Worldwide			
		Cost of support: ☐ Included in License ☐ Other: 15% of software list price			
		Software updates: ☐ Annually ■ Semiar	·		
	13	Cost of undates: Included in License or	r Maintenance Contract □ Other:		

	Languages available: 🗆 Arabic		□ Bengali	■ English	☐ French
	☐ Germa	n	☐ Hindi	☐ Japanese	■ Mandarin
	☐ Portug	uese	□ Russian	☐ Spanish	■ Other: Nationa
				langua	age support - enabled
16.	Online help: ■ Basic □ Contex	kt Sensitive	e 🗆 Hypertext	□ N/A	
17.	User interface: ☐ Command	Line ■ N	Menus ■ User	-Customizable Men	us
	■ User-Gene	rated Mac	ros   Other:	user designed inter	face_
10.4	L/FUNCTIONAL				
CA	L/FUNCTIONAL				
18.	Operating systems supported:	■ UNIX	/X-Windows	PC-DOS/Windows	□ Windows95
	operaning eyereme capperson			cintosh PC-OS/2	
			VMS □ Other:		> <del> </del>
	If UNIX/X-Windows, list vendors a				I, SUN, HP, Motif,
	Microsoft Windows				
19.	Minimum hardware configurati	on: depe	endent on the pla	atform and O/S and	user requirements
20.	Devices supported:				
		INPUT		OUT	PUT
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	☐ GPS:				
	□ CD-ROM:				
	☐ Diskette:				
	□ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	☐ Ink Jet Printers:				
	☐ Ink Jet Printers:☐ Laser Printers:☐				
0	<ul><li>☐ Ink Jet Printers:</li><li>☐ Laser Printers:</li><li>☐ Others:</li></ul>				
Sou	☐ Ink Jet Printers: ☐ Laser Printers: ☐ Others: ☐ rce code available: ◇ Yes: ☐ C	□ C++	□ FORTRAN	□ Pascal □ Other:	
	☐ Ink Jet Printers: ☐ Laser Printers: ☐ Others: ☐ Others: ☐ Yes: ☐ C ♠ No	C++	□ FORTRAN	□ Pascal □ Other:	
Bat	□ Ink Jet Printers: □ Laser Printers: □ Others: □ rce code available: ◊ Yes: □ C ♦ No ch capability: ♦ Yes ◊ No				
Bat	☐ Ink Jet Printers: ☐ Laser Printers: ☐ Others: ☐ Others: ☐ Yes: ☐ C ♠ No		◆ Yes: ■ C ■	IC++ □ FORTRAN	N
Bat	□ Ink Jet Printers: □ Laser Printers: □ Others: □ rce code available: ◊ Yes: □ C ♦ No ch capability: ♦ Yes ◊ No		◆ Yes: ■ C ■		N
Bat Lin	□ Ink Jet Printers: □ Laser Printers: □ Others: □ rce code available: ◊ Yes: □ C ♦ No ch capability: ♦ Yes ◊ No	access:	◆ Yes: ■ C ■ □ Paso ◇ No	IC++ □ FORTRAN	N

□ Lotus	■ Oracle □ Paradox □ Progress
☐ Sybas	se 🗆 Other:
26. Data Exchange Formats Supported: GINA, I	DXF, SIF, Translation Toolkit
27. If GIS Product: ■ Vector □ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	□ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
Raster-Vector Conversion	■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
Interactive Display	Image Enhancement
Geometric Rectification	□ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	☐ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ◆ Yes ◊ No	
32. Spatial index supported: ♦ Yes ◊ No	

Please describe additional features: The VISION\* architecture is unique - it abandons the outdated concept of the proprietary database used by traditional GIS and uses an open commercial database (Oracle) as the database engine. This allows our clients to maximize the return from their existing data with fully integrated spatial extensions. The result is a database foundation that supports multiple departments in even the most complex enterprise.

**33. Object Oriented Architecture: ♦** Yes ◊ No

PRODUCT NAME: SoftPlotter

COMPANY	/ORGANIZATION	
_		
		Vision International, of Autometric, Inc.
	ontact Person(s):	Richard Mckay
	reet Address:	5301 Shawnee Road
	ty, State:	Alexandria, VA
_	· ·	22312, USA
Ph		703-658-4000
Fa	·	703-658-4426
Em	nail:	rmckay@autometric.com
1.	Type of product:  ■ GIS ■ Image Process  •/PRICING	sing 🗆 AM/FM 🗅 CAD 🗅 Other:
LIOLINOINO	, riolito	
	License fee is: Turnkey system availab Basic (minimal) software	
USER BAS	SE	
	Total number of license	
7.	Number of licensed use	•
		Asia: <u>5</u>
		Australia: 2
		Europe: 20
		North America: 100
8.	Year of first installation:	South America: 5 : 1994 :
SUPPORT/	UPDATES	
	J. 5/1120	
9.	Training available: ■ C	courses 🗆 Videos 🗅 Tutorials 🗅 Other:
10.	Software support availa	ble: ■ Worldwide □ Not Available □ Other:
11.	Cost of support:  Include	uded in License ■ Other: 15%
12.		nnually ■ Semiannually □ Other:
	-	uded in License or Maintenance Contract    Other:

14. System documentation available as: ■ Hardcopy □ Electronic Files  15. Languages available: □ Arabic □ □ Bengail ■ English □ French □ German □ Hindi □ Japanese □ Mandarin □ Portuguese □ Russian □ Spanish □ Other: □ Command Line ■ Menus □ User-Customizable Menus □ User-Generated Macros ■ Other: ☐ GUI    Total						
German	14.	System documentation ava	ilable as: ■	Hardcopy 🗅 E	Electronic Files	
Portuguese	15.	Languages available: □ Ar	abic	□ Bengali	■ English	☐ French
Portuguese		□ Ge	erman	☐ Hindi	☐ Japanese	☐ Mandarin
16. Online help: □ Basic □ Context Sensitive □ Hypertext ■ N/A  17. User interface: □ Command Line ■ Menus □ User-Customizable Menus □ User-Generated Macros ■ Other: _GUI    User interface: □ Command Line ■ Menus □ User-Customizable Menus □ User-Generated Macros ■ Other: _GUI    User interface: □ Command Line ■ Menus □ User-Customizable Menus □ User-Cus		□ Po	rtuguese	□ Russian	•	☐ Other:
17. User interface:	16.	Online help:   Basic   Co	ontext Sensitiv	ve 🗆 Hypertext	■ N/A	<del></del>
TECHNICAL/FUNCTIONAL						us
18. Operating systems supported: ■ UNIX/X-Windows □ PC-DOS/Windows □ Windows95 □ Windows/NT □ MacIntosh □ PC-OS/2 □ OS/2 WARP □ VAX/VMS □ Other: □ If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics, Sun, DEC Alpha  19. Minimum hardware configuration: SGI Indy  20. Devices supported:    INPUT OUTPUT     Digitizers: □ Frame Grabbers: □ Scanners: □ GPS: □ CD-ROM: □ Diskette: □ Tape: □ Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Laser Printers: □ Chers: □ COthers: □ Cothe		☐ User-G	Senerated Ma	cros ■ Other:_	GUI	
18. Operating systems supported: ■ UNIX/X-Windows □ PC-DOS/Windows □ Windows95 □ Windows/NT □ MacIntosh □ PC-OS/2 □ OS/2 WARP □ VAX/VMS □ Other: □ If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics, Sun, DEC Alpha  19. Minimum hardware configuration: SGI Indy  20. Devices supported:    INPUT OUTPUT     Digitizers: □ Frame Grabbers: □ Scanners: □ GPS: □ CD-ROM: □ Diskette: □ Tape: □ Displays: □ Film Recorders: □ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Laser Printers: □ Chers: □ COthers: □ Cothe				_		
Windows/NT   MacIntosh   PC-OS/2   OS/2 WARP   VAX/VMS   Other:   If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics. Sun. DEC Alpha  19. Minimum hardware configuration: SGI Indy  20. Devices supported:    INPUT   OUTPUT     Digitizers:   Frame Grabbers:   Scanners:   GPS:   CD-ROM:   Diskette:   Tape:   Displays:   Film Recorders:   Electrostatic Plotters:   Pen Plotters:   Ink Jet Printers:   Laser Printers:   Others:   Others:   21. Source code available: ◊ Yes:   C   C++   FORTRAN   Pascal   Other:     22. Batch capability: ♦ Yes ◊ No  23. Linkable libraries for data structure access: ♦ Yes:   C   C++   FORTRAN	TECHNICAL	/FUNCTIONAL				
Windows/NT   MacIntosh   PC-OS/2   OS/2 WARP   VAX/VMS   Other:   If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics. Sun. DEC Alpha  19. Minimum hardware configuration: SGI Indy  20. Devices supported:    INPUT   OUTPUT     Digitizers:   Frame Grabbers:   Scanners:_   GPS:_   CD-ROM:_   Diskette:_   Tape:_   Diskette:_   Tape:_   Displays:   Film Recorders:   Electrostatic Plotters:   Pen Plotters:   Ink Jet Printers:   Laser Printers:   Others:_   Cothers:_   Cothers:   Cothers:_   Cothe	10	Operating systems suppor	tod: ■UNII	V/V Windowo =	DC DOS/Mindows	. □ Windowo05
VAX/VMS   Other:     If UNIX/X-Windows, list vendors and window managers supported: Silicon Graphics, Sun, DEC Alpha  19. Minimum hardware configuration:     Sequence   SGI Indy	10.	Operating systems suppor				
If UNIX/X-Windows, list vendors and window managers supported: <u>Silicon Graphics</u> , <u>Sun</u> , <u>DEC Alpha</u> 19. Minimum hardware configuration: _SGI Indy  20. Devices supported:    NPUT						2 1 03/2 WARP
19. Minimum hardware configuration: _SGI Indy  20. Devices supported:    NPUT		If LINIY/Y-Windows list yand				phice Sup DEC Alpha
Digitizers:	10				ported. <u>Silicon Gra</u>	priics, Suri, DEC Alpria
Digitizers:		_		il iliuy_		
Digitizers:	20.	Devices supported.	INDIT		OUT	DIIT
Frame Grabbers:     Scanners:     GPS:     CD-ROM:     Diskette:     Tape:     Displays:     Film Recorders:     Electrostatic Plotters:     Pen Plotters:     Ink Jet Printers:     Laser Printers:     Others:     Others:     21. Source code available: ◊ Yes:   C   C++   FORTRAN   Pascal   Other:     ♦ No  22. Batch capability: ♦ Yes ◊ No  23. Linkable libraries for data structure access: ♦ Yes:   C   C++   FORTRAN		□ Digitizoro:	_		001	F01
Scanners:   GPS:   CD-ROM:   Diskette:   Diskette:   Tape:   Displays:   Film Recorders:   Electrostatic Plotters:   Pen Plotters:   Ink Jet Printers:   Laser Printers:   Others:   C						
GPS:   CD-ROM:   Diskette:   Diskette:   Displays:   Film Recorders:   Electrostatic Plotters:   Pen Plotters:   Ink Jet Printers:   Laser Printers:   Laser Printers:   Others:   Others:   No  21. Source code available: ◇ Yes:   C   C++   FORTRAN   Pascal   Other:   Others:						
□ CD-ROM:       □ Diskette:         □ Displays:       □ Displays:         □ Film Recorders:       □ Electrostatic Plotters:         □ Pen Plotters:       □ Ink Jet Printers:         □ Laser Printers:       □ Others:         21. Source code available:       ◊ Yes:       □ C □ C++ □ FORTRAN □ Pascal □ Other:         22. Batch capability:       ♦ Yes       ◊ No         23. Linkable libraries for data structure access:       ♦ Yes:       □ C □ C++ □ FORTRAN						
Diskette:   Tape:   Displays:						
□ Tape:       □ Displays:       □ Pilm Recorders:       □ Electrostatic Plotters:       □ Pen Plotters:       □ Pen Plotters:       □ Ink Jet Printers:       □ User Printers:       □						
□ Displays:						
Film Recorders:		•				
□ Electrostatic Plotters: □ Pen Plotters: □ Ink Jet Printers: □ Laser Printers: □ Others: □ Others: □ No  21. Source code available: ◊ Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other: □ No  22. Batch capability: ♦ Yes ◊ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN		· •			<del></del>	
Pen Plotters: Ink Jet Printers: Laser Printers: Others: Others:  21. Source code available: ◊ Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other: ♦ No  22. Batch capability: ♦ Yes ◊ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN					-	
□ Ink Jet Printers: □ Laser Printers: □ Others: □ Others:  21. Source code available: ◊ Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other: □ No  22. Batch capability: ♦ Yes ◊ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN						
□ Laser Printers: □ Others: □ Others: □ 21. Source code available: ◊ Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other: □ No  22. Batch capability: ♦ Yes ◊ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN						
Others:  21. Source code available: ♦ Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other:  ♦ No  22. Batch capability: ♦ Yes ♦ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN					·	
21. Source code available: ♦ Yes: □ C □ C++ □ FORTRAN □ Pascal □ Other: □ No  22. Batch capability: ♦ Yes ♦ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN						
<ul> <li>No</li> <li>22. Batch capability: ◆ Yes ◊ No</li> <li>23. Linkable libraries for data structure access: ◆ Yes: □ C □ C++ □ FORTRAN</li> </ul>	21. Sou		□ C □ C++	□ FORTRAN	□ Pascal □ Other	•
22. Batch capability: ♦ Yes ♦ No  23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN				_, _,		·
23. Linkable libraries for data structure access: ◆ Yes: □ C □ C++ □ FORTRAN	22. Bate					
			ure access.	♦ Yes: □C: □	□ C++ □ FORTRAI	N
□ Pascal □ Other:	ZO. LIIII	table libraries for data struct	uic access.			
♦ No					cai 🗖 Other	<del>_</del>
24. Integrated Data Base Management System: ♦ Yes ◇ No	24 Inte	grated Data Base Manageme	ant System:			
25. Data Base File Types Supported: □ dBase □ Foxbase □ IMS □ INFO □ Intergraph		=	=		IMS □ INFO □ Inte	ergraph
□ Lotus □ Oracle □ Paradox □ Progress	ZJ. Dale	a base i lie Types Supportet				Cigiapii
■ Sybase ■ Other: SQS					•	
26. Data Exchange Formats Supported: ERDAS Imagine and raw binary	26 Date	a Exchange Formate Suppor	-			

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:	
☐ Map Digitizing	☐ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structuring	■ Datum Changes
Network Flow Analysis	■ Vector Overlay Analysis
Cell-based (Raster) Modeling	■ Surface Modeling
■ Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
■ Edgematching	□ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	■ Image Enhancement
■ Geometric Rectification	■ Spatial Filtering
■ Image Mosaicking	☐ Fourier Analysis
■ Radiometric Corrections	□ Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
■ Hardcopy Map Comp./Anno.	Principal Components Analysis
■ Filtering	<ul><li>Density Slicing</li></ul>
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	

31. Expert system capability: ◊ Yes ♦ No
32. Spatial index supported: ♦ Yes ◊ No
33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: The preeminent softcopy digital photogrammetry software on the market. SoftPlotter provides the functionality and performance demanded by professional mapping organizations.

PRODUCT NAME: SPACE WINDOWS

Сомра	NY/C	ORGANIZATION			
	Car	mnany Nama:	Coographia Manag	rement Calutiona Limited	
		npany Name: ntact Person(s):	John Standerline	gement Solutions Limited	
		• • • • • • • • • • • • • • • • • • • •			
		·	12 Turnpike Gate	under Edge Clausestershire	
		v, State:		ınder-Edge, Gloucestershire	
	_	Country: one:	44-1454-294948		
		·	44-1454-294948		
		all	not reported		
	1.	Type of product:			
	•		sing 🗆 AM/FM	□ CAD □ Other:	
		_ 0.0ago : 100000	5.1.1g = 7.1.1.1.1	<b>-</b> 0/1.5 <b>-</b> - 0.1101.	
LICENS	SING/	PRICING			
	2.	Is the product public do	main <i>or</i> commerci	al?	
		◆ Commercial Prod	uct		
		Licensed by: ■	User □ System □	☐ Site ☐ Other:	
		License fee is:	One Time Charge	e 🗅 Other Charge:	
	3.	Turnkey system availab	le (bundled hardw	are & software): ◆ Yes ◇ No	
	4.	Basic (minimal) software	e system cost: <u>\$1</u>	15,000	
	<b>5</b> .	Complete (fully capable)	) software system	cost: \$15,000	
USER I	Basi				
		Total number of license	d.uaara. 600		
	-	Number of licensed use		Africa	
	7.	Number of licensed use	rs by continent:	Africa:	
				Asia:Australia:	
				Europe: 550	
				North America:	
				South America: 50	
	R	Year of first installation:	1990	Coult America. 30	
	0.	real of mot motanation.	1000		
0	/	1			
SUPPO	RT/L	JPDATES			
	9.	Training available: ■ C	ourses 🗆 Videos	☐ Tutorials ☐ Other:	
	10.	_		□ Not Available □ Other:	
	11.			Other:	
	12.			nually 🗆 Other:	
	13.		-	Maintenance Contract ■ Other: annual fee	
		Julia apadico.	adda iii Elooiido oi i	Traintonanto Contract = Othor. annual toc	

	System documentation available	* *		
15.	Languages available: ☐ Arabic	☐ Bengali	•	■ French
	☐ Germa			□ Mandarin
		uese 🔲 Russian	□ Spanish	☐ Other:_
	Online help: ■ Basic □ Contex			
17.		_ine ■ Menus ■ User		us
	☐ User-Gener	ated Macros 🚨 Other:_		
TECHNICA	L/FUNCTIONAL			
18.	Operating systems supported:	□ UNIX/X-Windows ■ F	PC-DOS/Windows	□ Windows95
		■ Windows/NT □ MacIr		
		□ VAX/VMS □ Other:		
19.	Minimum hardware configuration			
20.	_			
	- стое саррания	INPUT	OUT	PUT
	■ Digitizers:	• .	• • • • • • • • • • • • • • • • • • • •	. • .
	■ Frame Grabbers:			
	Scanners:			
	■ GPS:			
	■ CD-ROM:			
	Diskette:			
	■ Tape:			
	☐ Displays:			
	☐ Film Recorders:			
	☐ Electrostatic Plotters:			
	☐ Pen Plotters:			
	☐ Ink Jet Printers:			
	☐ Laser Printers:			
	Others: Video			
21. Sou	urce code available: ◊ Yes: ☐ C	□ C++ □ FORTRAN □	☐ Pascal ☐ Other:_	
	♦ No			
22. Bat	ch capability: ♦ Yes ◊ No			
23. Lin	kable libraries for data structure	access: ♦ Yes: □ C	C++ □ FORTRA	N
		□ Pas	cal 🗆 Other:	
		♦ No		
24. Inte	egrated Data Base Management S	ystem: ♦ Yes ◇ No		
	a Base File Types Supported: ■	=	S 🗆 INFO 🗅 Interd	graph
	••	Lotus □ Oracle □ Parac	_	•
		Sybase ☐ Other:		
26. Dat	a Exchange Formats Supported:	· ·		
	ilS Product: ■ Vector ■ Raster			

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- ☐ Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- Filtering
- ☐ Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: not reported

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - Buffer generation
  - ☐ Line-of-Sight Analysis
  - Map Joining
  - ☐ Image Enhancement
  - Spatial Filtering
  - □ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

PRODUCT NAME: SPACE/Motif

COMPAN	NY/ORGANIZATION			
,	Company Namo:	ADIC S A		
	Company Name: Contact Person(s):	APIC S.A.  Pierre Tarif, Marketin	og Director	
	Street Address:	Le Baudran, 25, Rue		
	City, State:	Arcueil	e de Otalingrad	
	Zip, Country:		e	
	Phone:	33-1-49-69-90-90		
	Fax:	33-1-49-69-92-93	<u> </u>	
	Email:			
	1. Type of product:			
		sing 🗆 AM/FM 🗅	□ CAD □ Other: software component	
LICENSII	NG/PRICING			
2	2. Is the product public do	main <i>or</i> commercial	l?	
	◆ Commercial Prod	uct		
			Site 🗆 Other:	
	License fee is:	One Time Charge	☐ Other Charge:	
;	<ol><li>Turnkey system availab</li></ol>	le (bundled hardwa	re & software): ♦ Yes ♦ No	
4	4. Basic (minimal) software	e system cost: <u>\$8,</u> 0	000_	
;	5. Complete (fully capable	software system c	cost: \$17,000	
USER B	ASE			
	-			
	6. Total number of license	dusors: 100		
	7. Number of licensed use		Africa:	
	7. Number of ficensed use	•		
			Asia: Australia:	
			Europe: 100	
			North America:	
			South America:	
5	8. Year of first installation:		South / thorica	
`	o. Tear of mot motanation.	1000		
SUPPOR	T/UPDATES			
9	9. Training available: ■ C	ourses □ Videos □	□ Tutorials □ Other:	
	<del>-</del>		□ Not Available □ Other:	
			Other: Maintenance contract available	
12				
13	-	-	laintenance Contract	
1.	o. Gost of updates.  Incl	uucu III LICEIISE OI Mi	antenance contract - Other	

	Languages available: ☐ Arabic	□ Bengali	■ English	■ French
	□ German	⊒ Hindi	•	□ Mandarin
		se 🖵 Russian	•	☐ Other:_
6.	Online help: ■ Basic ■ Context		•	_ 0o <u>.</u>
		ne □ Menus ■ Use		us
		ed Macros   Other:		
ICAL	/FUNCTIONAL			
18.	Operating systems supported: ■	UNIX/X-Windows □	PC-DOS/Windows	☐ Windows95
		Windows/NT □ Mac		
		VAX/VMS □ Other:_		
	If UNIX/X-Windows, list vendors and			ris 1 / Sun -
	Solaris 2 / HP - UX9 / IBM - AIX			
19.	Minimum hardware configuration	:_ RAM 32MB		
20.	Devices supported:			
		INPUT	OUT	PUT
	□ Digitizers:			
	☐ Frame Grabbers:			
	□ Scanners:			
	☐ GPS:			
	☐ CD-ROM:			
	☐ Diskette:			
	☐ Tape:			
	☐ Displays:			
	☐ Film Recorders:			
	■ Electrostatic Plotters:		HPGL2, PostS	Script
	☐ Pen Plotters:			
	☐ Ink Jet Printers:			
	☐ Laser Printers:			
	☐ Others:			

27. If GIS Pro	duct: ■ vector ■ Raster	
28. GIS Funct	ionality:	
	☐ Map Digitizing	■ Map Display & Query
	■ Digital Map Editing	□ Change Map Projections
	☐ Topographical Structuring	□ Datum Changes
	■ Network Flow Analysis	■ Vector Overlay Analysis
	☐ Cell-based (Raster) Modeling	□ Surface Modeling
	■ Map Composition/Generation	■ Buffer generation
	□ Raster-Vector Conversion	■ Line-of-Sight Analysis
	□ Edgematching	□ Map Joining
29. Image Pro	cessing Functionality:	
	■ Interactive Display	☐ Image Enhancement
	□ Geometric Rectification	□ Spatial Filtering
	☐ Image Mosaicking	☐ Fourier Analysis
	□ Radiometric Corrections	☐ Multivariate/Statistical Analysis
	□ Raster GIS Modeling	□ Radar Geocoding & Analysis
	☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
	☐ Filtering	Density Slicing
	Supervised Classification	Unsupervised Classification
30. Multi-user	Capability: ♦ Yes ◊ No	
31. Expert sys	stem capability: ◊ Yes ♦ No	
32. Spatial inc	dex supported: ♦ Yes ♦ No	

Please describe additional features: <u>Multi-bases access (simultaneous access to several databases by one user).</u>

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: SPACE/Windows

Сомрам	NY/ORGANIZATION	
(	Company Name:	APIC S.A.
	Company Name Contact Person(s):	Pierre Tarif, Marketing Director
	` '	Le Baudran, 25, Rue de Stalingrad
	City, State:	Arcueil
	Zip, Country:	94724 Ceder, France
	Phone:	33-1-49-69-90-90
	Fax:	33-1-49-69-92-93
	Email:	ifo@apic.fr
	-	sing 🗅 AM/FM 🗅 CAD 🗅 Other:
LICENSI	NG/PRICING	
;	License fee is: I  3. Turnkey system availab  4. Basic (minimal) softwar	luct User □ System □ Site □ Other: ■ One Time Charge □ Other Charge: ble (bundled hardware & software): ◊ Yes ♦ No
USER B	SASE	
(	<ol><li>Total number of license</li></ol>	d users: 40_
•	7. Number of licensed use	ers by continent: Africa:
		Asia:
		Australia:
		Europe: 40
		North America:
	8. Year of first installation:	South America:
•	o. Tear of first installation.	
SUPPOR	RT/UPDATES	
	,	
	<u> </u>	Courses Uideos Uiturials Uiturials Cott
		able: ■ Worldwide □ Not Available □ Other:
		uded in License ■ Other: BBS (\$200 / 3 hours)
		nnually ■ Semiannually □ Other:
13	<ol><li>Cost of updates: Incl</li></ol>	luded in License or Maintenance Contract   Other:

	System documentation available as:	■ Hardcopy ■ E	Electronic Files	
15.	Languages available:   Arabic	□ Bengali	•	■ French
	☐ German	☐ Hindi	□ Japanese	☐ Mandarin
			□ Spanish	☐ Other:_
	Online help: ■ Basic □ Context Sens			
17.	User interface: ☐ Command Line ☐			us
	☐ User-Generated N	/lacros ☐ Other:_		
TECHNICAI	/Functional			
18.	Operating systems supported: ☐ UNI			
			ntosh ☐ PC-OS/2	□ OS/2 WARP
		⟨/VMS □ Other:		
	Minimum hardware configuration: R	AM 8MB, disk 50N	<u> B</u>	
20.				
		PUT	OUT	PUT
	☐ Digitizers:			
	☐ Frame Grabbers:			
	□ Scanners:			
	□ GPS:			
	□ CD-ROM:			
	☐ Diskette:			
	☐ Tape:			
	Displays:			I capabilities
	Film Recorders:		PostScript	
	☐ Electrostatic Plotters:		-	
	□ Pen Plotters:		·	
	☐ Ink Jet Printers:		-	
	☐ Laser Printers:			
	Others:		<del></del>	
21. Sou	rce code available: ◊ Yes: ☐ C ☐ C+-	F LIFORTRAN L	Pascal U Other:_	
	♦ No			
	ch capability: ◊ Yes ◆ No			
23. Lini	kable libraries for data structure acces			
			cal 🗆 Other:	<u> </u>
		♦ No		
	grated Data Base Management System			
25. Dat	a Base File Types Supported: 🗅 dBase		•	raph
		□ Oracle □ Parac	_	
	•	se ■ Other:		
	a Exchange Formats Supported: <u>DXF</u>	/ ASCII / APIC FEI	<u>)                                    </u>	
27. If G	IS Product: ■ Vector ■ Raster			

DOCUMENTATION/INTERFACE

28. GIS	Functionality:
---------	----------------

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- Network Flow Analysis
- ☐ Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- □ Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- ☐ Geometric Rectification
- ☐ Image Mosaicking
- □ Radiometric Corrections
- ☐ Raster GIS Modeling
- ☐ Hardcopy Map Comp./Anno.
- ☐ Filtering
- ☐ Supervised Classification
- 30. Multi-user Capability: ♦ Yes ♦ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: not reported

- Map Display & Query
  - ☐ Change Map Projections
  - □ Datum Changes
  - Vector Overlay Analysis
  - □ Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - ☐ Image Enhancement
  - □ Spatial Filtering
  - □ Fourier Analysis
  - ☐ Multivariate/Statistical Analysis
  - ☐ Radar Geocoding & Analysis
  - ☐ Principal Components Analysis
  - □ Density Slicing
  - ☐ Unsupervised Classification

PRODUCT NAME: Spatial Database Engine (SDE)

COMPANY	/ORGANIZATION				
	. ,	ESRI			
	· , -	Arun Rajarao			
	·	380 New York Street			
Cit	ty, State:	Redlands, CA			
Zip	· • • • • • • • • • • • • • • • • • • •	92373, USA			
Ph	none:	909-793-2853			
Fa	X:	909-793-5953			
En	nail:	info@esri.com (World Wide Web URL: http://www.esri.com)			
1.	Type of product:  ■ GIS □ Image Process	sing □ AM/FM □ CAD ■ Other: <u>Spatial Database Management</u>			
LICENSING	71 NONG				
2.	License fee is:	uct User □ System □ Site □ Other:  One Time Charge □ Other Charge:not_reported			
	., .,				
4.					
5.	. Complete (fully capable) software system cost: Contact ESRI				
USER BAS	SE				
6.	Total number of licensed	d users: N/A			
7.	Number of licensed user	rs by continent: Africa: N/A			
		Asia: <u>N/A</u>			
		Australia: N/A			
		Europe: N/A			
		North America: N/A			
		South America: N/A			
8.	Year of first installation:	1995			
SUPPORT/	UPDATES				
9.	Training available:	ourses □ Videos □ Tutorials □ Other:			
9. 10.	<del>-</del>	ble: ■ Worldwide □ Not Available □ Other:_			
10. 11.		uded in License   Other: <u>not reported</u>			
12.		nually Semiannually Other:			

	System documentation available as:				
15.	Languages available: ☐ Arabic	□ Bengali	3	☐ French	
	☐ German	☐ Hindi	□ Japanese		
	☐ Portuguese		□ Spanish	Other:	
	Online help: ☐ Basic ☐ Context Sensi				
17.	User interface: ☐ Command Line ☐			nus	
	☐ User-Generated Ma	acros 🗆 Other:_			
_	_				
TECHNICAL	/FUNCTIONAL				
18.	Operating systems supported: ■ UNIX	/X-Windows ■ P	C-DOS/Windows	☐ Windows95	
			ntosh □ PC-OS/2		
		VMS □ Other:			
	If UNIX/X-Windows, list vendors and wind			, HP, SGI	
19.	Minimum hardware configuration: UN			· · · · · · · · · · · · · · · · · · ·	
	Devices supported:	_			
	 INF	UT	ou <sup>.</sup>	ГРИТ	
	□ Digitizers:	_			
	☐ Frame Grabbers:				
	□ Scanners:				
	□ GPS:				
	□ CD-ROM:				
	☐ Diskette:				
	□ Tape:				
	☐ Displays:				
	☐ Film Recorders:				
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	☐ Ink Jet Printers:				
	☐ Laser Printers:				
	☐ Others:				
21. Sou	rce code available: ◊ Yes: ☐ C ☐ C++	☐ FORTRAN □	⊒ Pascal □ Other	:	
	◆ No				
22. Bate	ch capability: ♦ Yes ♦ No				
23. Link	cable libraries for data structure access	• <b>Yes</b> : ■ C	C++ ☐ FORTRA	N	
		☐ Pasc	al ■ Other:		
		♦ No			
24. Inte	grated Data Base Management System:	♦ Yes ◇ No			
25. Data	a Base File Types Supported: □ dBase	□ Foxbase □ IM	S □ INFO □ Inter	graph	
	□ Lotus	■ Oracle □ Parac	dox □ Progress		
	☐ Sybase	e 🗆 Other:			
26. Data	a Exchange Formats Supported: not re	<u>ported</u>			

DOCUMENTATION/INTERFACE

27. If GIS Product: ■ Vector ■ Raster

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28. GIS Functionality:				
☐ Map Digitizing	☐ Map Display & Query			
Digital Map Editing	☐ Change Map Projections			
Topographical Structuring	□ Datum Changes			
□ Network Flow Analysis	□ Vector Overlay Analysis			
Cell-based (Raster) Modeling	☐ Surface Modeling			
Map Composition/Generation	□ Buffer generation			
Raster-Vector Conversion	☐ Line-of-Sight Analysis			
Edgematching	□ Map Joining			
29. Image Processing Functionality:				
☐ Interactive Display	☐ Image Enhancement			
□ Geometric Rectification	□ Spatial Filtering			
☐ Image Mosaicking	☐ Fourier Analysis			
Radiometric Corrections	☐ Multivariate/Statistical Analysis			
Raster GIS Modeling	□ Radar Geocoding & Analysis			
Hardcopy Map Comp./Anno.	<ul><li>Principal Components Analysis</li></ul>			
☐ Filtering	□ Density Slicing			
Supervised Classification	Unsupervised Classification			
<b>30. Multi-user Capability: ◆</b> Yes ◊ No				
31. Expert system capability: ◊ Yes ♦ No				
32. Spatial index supported: ♦ Yes ◊ No				
33. Object Oriented Architecture: ♦ Yes ◊ No				
Please describe additional features: ESRI's Spa	tial Database Engine (SDE) is a high-performance.			
object-based spatial data access engine that employs	s true client/server architecture combined with a set of			
software services to perform fast, efficient spatial operations and management of large, shared, geographic				
data sets.				

PRODUCT NAME: Spatial Query Server (SQS)

COMPANY	/ORGANIZATION			
Co	ompany Name:	l, of Autometric, Inc.		
Co	ontact Person(s):	Richard Mckay		
St	Street Address: 5301 Shawn		ad	
Ci	ty, State:	Alexandria, VA		
Zi <sub>l</sub>	p, Country:	22312, USA		
Ph	none:	703-658-4000		
Fa	ıx:	703-658-4426		
En	nail:	rmckay@autometri	ic.com	
1.		sing 🗖 AM/FM	□ CAD ■ Other: <u>Spatial Data Handling Toolkit</u>	
3. 4.	License fee is: Turnkey system availab	luct User □ System □ □ One Time Charge le (bundled hardwa e system cost:_\$3	☐ Site ☐ Other: ☐ Other Charge:not reported are & software): ◇ Yes ◆ No 3500 USD	
USER BAS	SE			
	Total number of license	<u></u>		
7.	Number of licensed use	rs by continent:	Africa:	
			Asia:	
			Australia:	
			Europe:	
			North America: 160	
	Voor of first installation		South America:	
0.	Year of first installation	1995		
SUPPORT/	/UPDATES			
9.	Training available: ■ C	Courses 🗆 Videos	□ Tutorials □ Other:	
10.	Software support availa	ble: ■ Worldwide	□ Not Available □ Other:	
11.	Cost of support: ☐ Included in License ☐ Other: 15% License Fees			
12.	Software updates: ■ Ar	nnually 🛭 Semiann	ually 🗅 Other:	
13.	Cost of updates: ■ Included in License or Maintenance Contract □ Other:			

14.	System documentation availab	le as: ■ H	ardcopy □ F	Electronic Files	
	Languages available: ☐ Arabic		□ Bengali		□ French
	□ Germa		□ Hindi	-	☐ Mandarin
				☐ Spanish	☐ Other:
16.	Online help: ☐ Basic ☐ Contex			=	
	User interface: ☐ Command				us
	☐ User-Gene				
	2 0001 00110	ratoa maoro	.o <u> </u>	14/7	
TECHNICAL	/FUNCTIONAL				
IECHNICAL	JI UNCTIONAL				
18.	Operating systems supported:	■ UNIX/X	C-Windows □	PC-DOS/Windows	☐ Windows95
		□ Windov	vs/NT □ Mad	olntosh □ PC-OS/2	2 □ OS/2 WARP
		□ VAX/VI	MS □ Other:		
	If UNIX/X-Windows, list vendors a	and window	managers sup	ported: <u>SGI/IRIX</u> ,	SUN/SOLARIS '95,
	IBM/RS6000 '96, DEC/ALPHA '9	<u>6</u>			
19.	Minimum hardware configurati	on: <u>not re</u>	ported		
20.	Devices supported:				
		INPUT		OUTPUT	
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	□ GPS:				
	☐ CD-ROM:				
	☐ Diskette:				
	□ Tape:				
	☐ Displays:				
	☐ Film Recorders:			-	
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	☐ Ink Jet Printers:				
	☐ Laser Printers:				
	☐ Others:				
21. Sou	rce code available: ♦ Yes: ☐ C	; □ C++ □	FORTRAN	□ Pascal □ Other:	<u> </u>
	♦ No				
	ch capability: ♦ Yes ♦ No				
23. Link	cable libraries for data structure	access: ◆			
				cal 🗆 Other:	<u> </u>
			No		
	grated Data Base Management S	-		o = <del>-</del>	
25. Data	a Base File Types Supported:			IMS □ INFO □ Inte	ergraph
				radox ☐ Progress	
		-	☐ Other:		
26 Data	a Exchange Formats Supported:	not report	ed		

DOCUMENTATION/INTERFACE

27. If GIS Produ	ıct: ⊔ Vector ⊔ Raster		
28. GIS Functio	nality:		
	☐ Map Digitizing	□ Мар	Display & Query
	☐ Digital Map Editing		□ Change Map Projections
	☐ Topographical Structuring		□ Datum Changes
	☐ Network Flow Analysis		Vector Overlay Analysis
	☐ Cell-based (Raster) Modeling		□ Surface Modeling
	☐ Map Composition/Generation		□ Buffer generation
	☐ Raster-Vector Conversion		☐ Line-of-Sight Analysis
	□ Edgematching		■ Map Joining
29. Image Proce	essing Functionality:		
	☐ Interactive Display		☐ Image Enhancement
	☐ Geometric Rectification	□ Spat	ial Filtering
	☐ Image Mosaicking		☐ Fourier Analysis
	☐ Radiometric Corrections		☐ Multivariate/Statistical Analysis
	☐ Raster GIS Modeling		☐ Radar Geocoding & Analysis
	☐ Hardcopy Map Comp./Anno.		☐ Principal Components Analysis
	☐ Filtering		□ Density Slicing
	□ Supervised Classification		Unsupervised Classification
30. Multi-user C	apability: ♦ Yes ◊ No		
31. Expert syste	em capability: ◊ Yes ♦ No		
32. Spatial inde	x supported: ♦ Yes ◊ No		

Please describe additional features: SQS via spatial indexes, templates, and spatial query operators transforms the Sybase RDBMS into a spatial database. Spatial data may be queried along with relational data to return the desired results.

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: SPECTRUM System

Сомра	NY/ORGANIZATION	
	Company Name:	Sokkia Corporation
	Contact Person(s):	·
	Street Address:	
	City, State:	Overland Park, KS
	Zip, Country:	66214, USA
	Phone:	<del>.</del>
	Fax:	913-492-0188
	Email:	10237.657@compuserve.com
		·
	1. Type of product:	
	☐ GIS ☐ Image Proce	ssing □ AM/FM □ CAD ■ Other: GPS/GIS Data Collection System
_	_	
LICENS	ING/PRICING	
	2. Is the product public d	
	◆ Commercial Pro	
		■ User □ System □ Site □ Other:
		■ One Time Charge □ Other Charge:
	• •	ble (bundled hardware & software): ♦ Yes ♦ No
		are system cost: \$2,995
	5. Complete (fully capable	e) software system cost: \$13,985
USER E	BASE	
	6. Total number of licens	ed users: not available
	7. Number of licensed us	
	7. Number of nechised us	Asia:
		Australia:
		Europe:
		North America:
		South America:
	8. Year of first installation	
SUPPO	RT/UPDATES	
	9. Training available: ■	Courses U Videos U Tutorials U Other:
	10. Software support avail	lable: ■ Worldwide □ Not Available □ Other:
	11. Cost of support: ■ Ind	cluded in License    Other: 90 days free support then \$995.00/year
	12. Software updates: 🗆 🗡	Annually ☐ Semiannually ■ Other:
i	13. Cost of updates: ■ In	cluded in License or Maintenance Contract
		enhancement upgrades only

DOCUMEN	TATION/INTERFACE				
4.4	Custom decumentation qualish		lordoony = C	laatronia Filaa	
	System documentation available	e as: ■ r			
15.	Languages available: ☐ Arabic		□ Bengali	■ English	☐ French
	■ Germa	า	☐ Hindi	□ Japanese	□ Mandarin
	■ Portugu	ıese	□ Russian	■ Spanish	☐ Other:
16.	Online help:   Basic   Contex	t Sensitive	■ Hypertext	□ N/A	
17.	User interface: ☐ Command	_ine ■ M	enus 🗆 User-	Customizable Me	enus
	User-Gener	ated Macre	os 🛚 Other:		
TECHNICA	L/FUNCTIONAL				
18.	Operating systems supported:	□ UNIX/	X-Windows	PC-DOS/Windov	ws □ Windows95
	. 0,				S/2 OS/2 WARP
			'MS ☐ Other:_		3,2
19.	Minimum hardware configuration			<u> </u>	SA graphics and 80 MB
	hard disk space			.,	<u> </u>
20.	Devices supported:				
		INPUT		OL	JTPUT
	☐ Digitizers: N/A				
	☐ Frame Grabbers: N/A				
	☐ Scanners: N/A				
	■ GPS: S100 Receiver and RIN				
	■ CD-ROM: PC-DOS/Windows				
	■ Diskette: <u>PC-DOS/Windows c</u>				PC-DOS/Windows compatible
	■ Tape: PC-DOS/Windows com	-			PC-DOS/Windows compatible
	■ Displays:	patible		·	PC-DOS/Windows compatible
	☐ Film Recorders:			<u>'</u> N/A	C-DCG/Windows compatible
	☐ Electrostatic Plotters:			N/A	
	☐ Pen Plotters:				N/A
	■ Ink Jet Printers:				ndows compatible
					·
	■ Laser Printers:  □ Others:				PC-DOS/Windows compatible
21 Sou	urce code available: ♦ Yes: □ C	□ C++		— Pascal □ Oth	er:
21. 00.	♦ No			<b>-</b> 1 40041	or. <u></u>
22 Rat	tch capability: ♦ Yes ♦ No				
	kable libraries for data structure a	access.	Ves. □C ■	C++ □ FORTR	ΔΝ
20. Liii	Rabic libraries for data structure (			al □ Other:	
		,	⊃ Fasc No	ai 🗖 Other	
2/ Inte	egrated Data Base Management S				
	_	-		MC = INICO = 1	ntorgraph
∠o. Dat	ta Base File Types Supported:			MS ■ INFO ■ I	- ·
		■ Lotus L	J Oracle ⊔ Par	adox 🛭 Progres:	S

26. Data Exchange Formats Supported: <u>DXF</u>

27. If GIS Product: ■ Vector □ Raster

☐ Sybase ■ Other: SDR, ERDAS, MGE, "standard" ASCII

28. GIS Functionality:	
☐ Map Digitizing	☐ Map Display & Query
Digital Map Editing	■ Change Map Projections
Topographical Structuring	■ Datum Changes
□ Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	□ Surface Modeling
Map Composition/Generation	Buffer generation
Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
Interactive Display	Image Enhancement
Geometric Rectification	□ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	Multivariate/Statistical Analysis
Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
☐ Filtering	Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ No	
32. Spatial index supported: ◊ Yes ♦ No	

33. Object Oriented Architecture: ♦ Yes ◊ No

Please describe additional features: \_\_Customizable attribute library for enhanced GPS data collection; Submeter positioning; GPS navigation support; Pre-mission planning for GPS field work; Offset measurements; Stream measurements

PRODUCT NAME: SPRING

Сомр	ANY/	ORGANIZATION			
	Coi	mpany Name:	INPE, National Inst	stitute for Space Research	
	Coi	ntact Person(s):	Gilberto Camaro		
	Str	eet Address:	Av. Astronantas, 1	17J8	
	City	y, State:	Sao Jose dos Can	mpos, SP	
	Zip	, Country:	12201-010, Brazil		
	Phone:		55-123-25-64-99		
	Fax:		55-123-25-64-68		
	Em	ail:	Gilberto@dpi.inpe.	.br	
	1.	Type of product:		504B 504	
		■ GIS ■ Image Process	sing U AM/FM	□ CAD □ Other:	
LICENS	SING	PRICING			
	2.	Is the product public do	main <i>or</i> commerc	ial?	
		◆ Commercial Prod	uct		
		Licensed by: □	User ☐ System	■ Site □ Other:	
		License fee is: I	One Time Charge	ge 🛘 Other Charge:	
	3. Turnkey system available (bundled hardware & software): ◊ Yes ♦ No		vare & software): ♦ Yes ♦ No		
	4.	Basic (minimal) software	e system cost: U	JS \$5,000 (PC version)	
	<b>5</b> .	Complete (fully capable)	) software system	cost: US \$20,000 (UNIX version)	
USER	RASI	=			
OOLIN	DAO	_			
	•	Total number of license	d		
	o. 7.	Total number of license Number of licensed use	' <u></u> '	Africa	
	/.	Number of ficensed use	rs by continent.	Africa: Asia:	
				Australia:	
				Europe:	
				North America:	
				South America: 120	
	8.	Year of first installation:	1992		
SUPPO	RT/L	JPDATES			
	9.	_		☐ Tutorials ☐ Other:	
	10.	• •		e □ Not Available □ Other:	
		Cost of support:  Incl			
		Software updates: ☐ Ar	=	-	
	13.	Cost of updates: ☐ Incl	uded in License or	Maintenance Contract ☐ Other:	

DOCUMEN	TATION/INTERFACE				
	•	. –		—	
	System documentation availab				
15.	Languages available: ☐ Arabic		⊒ Bengali	•	☐ French
	☐ Germa		⊒ Hindi		☐ Mandarin
	☐ Portug	juese [	⊒ Russian	□ Spanish	☐ Other:
16.	Online help:   Basic   Conte	xt Sensitive I	Hypertext	□ N/A	
17.	User interface: ■ Command	Line ■ Mer	nus 🗆 User-	Customizable Menu	us
	☐ User-Gene	erated Macros	Other:_		
TECHNICAL	L/FUNCTIONAL				
18.	Operating systems supported:				
		■ Windows	s/NT □ Mac	Intosh ☐ PC-OS/2	■ OS/2 WARP
19.	Minimum hardware configurati	on: <u>32MB F</u>	RAM, 8 bit gra	aphics board, 1GB	<u>disk.</u>
20.	Devices supported:				
		INPUT		OUT	PUT
	■ Digitizers: <u>Calcomp, Kurta</u>				
	■ Frame Grabbers: TIFF forma	<u>t</u>			
	■ Scanners: RLE, TIFF formats	3			
	☐ GPS:				
	■ CD-ROM:				
	☐ Diskette:				
	■ Tape: 8mm, DAT-4mm, QIC-	150		Same	
	■ Displays:			X-V	Vindows, 8/24 bits
	■ Film Recorders:			PostScript, TIF	F formats
	■ Electrostatic Plotters:			PostScript, HP	GL formats_
	■ Pen Plotters:			<u>HP</u>	GL format
	■ Ink Jet Printers:			HPGL format	
	■ Laser Printers:			_ Pos	stScript
	☐ Others:				
21. Sou	ırce code available: ◇ Yes: 🗅 C	C++ □	FORTRAN	□ Pascal □ Other:	
	♦ No				
22. Bat	ch capability: ◊ Yes ◆ No				
23. Lini	kable libraries for data structure	access: ♦	Yes: □C ■	IC++ □ FORTRAN	I
			☐ Pasc	al 🗆 Other:	<u> </u>
		1 ♦	No		
24. Inte	grated Data Base Management \$	System: ♦ Ye	es ◊ No		
25. Dat	a Base File Types Supported:	■ dBase □	Foxbase 🗆 I	MS □ INFO □ Inte	ergraph
	· · · · · · · · · · · · · · · · · · ·	□ Lotus ■ 0	Oracle 🛚 Par	adox 🛘 Progress	
			Other: Ingr	•	
26. Dat	a Exchange Formats Supported:	-	_		

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- Topographical Structuring
- □ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- Raster-Vector Conversion
- Edgematching

### 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ◆ Yes ◊ No
- 32. Spatial index supported: ♦ Yes ◊ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

- Map Display & Query
  - Change Map Projections
  - Datum Changes
  - □ Vector Overlay Analysis
  - Surface Modeling
  - Buffer generation
  - Line-of-Sight Analysis
  - Map Joining
  - Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: <u>Image segmentation, digital terrain modelling.</u>

PRODUCT NAME: Telecomms

Сомра	ANY/ORGANIZATION		
	Company Name:	Laser-Scan	
	Contact Person(s):	Parvis Ansary	
	Street Address:	Cambridge Science Park, Milton Road	
	City, State:	Cambridge	
	Zip, Country:	CB4 4FY, UK	
	Phone:	44-01223-420414	
	Fax:	44-01223-420044	
	Email:	parvis@lsl.co.uk	
	Type of product:     GIS □ Image Proces	sing □ AM/FM □ CAD □ Other:	
LICENS	SING/PRICING		
	License fee is: 3. Turnkey system availal 4. Basic (minimal) softwa		
USER E	Base		
	6. Total number of license	ed users: 80	
	7. Number of licensed use	ers by continent: Africa:	
		Asia:60	
		Australia:	
		Europe: 20	
		North America:	
		South America:	
	8. Year of first installation	: <u>1993</u>	
Suppo	RT/UPDATES		
SUPPO	RI/UPDATES		
	10. Software support avail	Courses □ Videos □ Tutorials □ Other: *Ible: ■ Worldwide □ Not Available □ Other: uded in License ■ Other:_ @ 15% of software cost (£5,000 P/A)	
		nnually 🗆 Semiannually 🗅 Other:	
		luded in License or Maintenance Contract    Other:	

	Languages available: 🗆 Ara	abic	□ Bengali	■ English	☐ French
	•	rman	☐ Hindi	•	☐ Mandarin
	□ Poi	rtuguese	□ Russian	•	■ Other: Korean
16.	Online help: ☐ Basic ☐ Co				
17.				-Customizable Men	us
	☐ User-G	enerated Mad	cros 🗆 Other:_		
HNICA	L/FUNCTIONAL				
18.	Operating systems support				
				cIntosh 🗆 PC-OS/2	2 U OS/2 WARP
	If I INIIV/V Mindows list wonds		/VMS ☐ Other:		a.d
10	If UNIX/X-Windows, list vendo  Minimum hardware configur		-		
13.	Oracle 7; HP (Apollo 9000/733			-	-
	(DecStation 5000, series 100	•	<u> </u>		<del>_</del>
	ware 4.3; SUN (Sparc 2 or Sp		•	•	
	1X1 OSF/Motif window manage	•	• .	•	•
	530H): Skyways color graphic	-	· ·	·	
		5, 717( 0.2, 1 (	ortiair itair iiiiic	LICCIISC 02.02.0100	3.003, /\window
	geveloomeni libranes				
20.	development libraries.  Devices supported:				
20.	Devices supported:	INPUT		OUT	PUT
20.	Devices supported:	INPUT		оит	PUT
20.	Devices supported:  Digitizers:			оит	PUT
20.	Devices supported:			оит	PUT
20.	Devices supported:  ■ Digitizers: ■ Frame Grabbers: ■ Scanners:			оит	PUT
20.	Devices supported:  ■ Digitizers: ■ Frame Grabbers:			оит	PUT
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: GPS:			оит	PUT
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: GPS: CD-ROM:			ОИТ	PUT
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: CPS: CD-ROM: Diskette:				PUT e above
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: GPS: CD-ROM: Diskette: Tape:				
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: CPS: CD-ROM: Diskette: Tape: Displays:				
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: CD-ROM: Diskette: Tape: Displays: Film Recorders:				
20.	Devices supported:  Digitizers:				
20.	Devices supported:  Digitizers: Frame Grabbers: Scanners: GPS: CD-ROM: Diskette: Tape: Displays: Film Recorders: Electrostatic Plotters: Pen Plotters:				e above
	Devices supported:  Digitizers:				e above
	Devices supported:  Digitizers:				e above
1. Sou	Devices supported:  Digitizers:				e above

DOCUMENTATION/INTERFACE

	☐ Pascal ☐ Other:
	♦ No
24. Integrated Data Base Management	System: ♦ Yes ◇ No
25. Data Base File Types Supported:	□ dBase □ Foxbase □ IMS □ INFO □ Intergraph
	☐ Lotus ■ Oracle ☐ Paradox ☐ Progress
	☐ Sybase ■ Other: <u>INGRES</u>
26. Data Exchange Formats Supported	:_ not reported_
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structu	ring ■ Datum Changes
☐ Network Flow Analysis	■ Vector Overlay Analysis
☐ Cell-based (Raster) Mo	odeling
☐ Map Composition/Gen	eration ■ Buffer generation
■ Raster-Vector Convers	sion ■ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
Interactive Display	Image Enhancement
Geometric Rectification	n □ Spatial Filtering
☐ Image Mosaicking	☐ Fourier Analysis
Radiometric Correction	ns
□ Raster GIS Modeling	Radar Geocoding & Analysis
☐ Hardcopy Map Comp./	/Anno. □ Principal Components Analysis
☐ Filtering	Density Slicing
☐ Supervised Classification	on
30. Multi-user Capability: ♦ Yes ◊ No	
31. Expert system capability: ◊ Yes ◊ N	10
32. Spatial index supported: ◆ Yes ◊ No	0
33. Object Oriented Architecture: ◊ Yes	s ♦ No

Please describe additional features: 1) Extensible functionality using tool kit facility (optional). 2) Complete development environment (optional)

# PRODUCT NAME: TGIS (Telecommunications Geographic Information System)

COMPANY/	ORGANIZATION	
	mpany Name:	The James & Leonard Group, Ltd.
	ntact Person(s):	
	eet Address:	87 Bethpage Rd.
City	y, State:	Hicksville, NY
Zip	, Country:	11801-1503, USA
Pho	one:	516-938-5666
Fax	x:	516-938-7796
Em	nail:	Not reported
	Type of product: ☐ GIS ☐ Image Proces	ssing □ AM/FM □ CAD ■ Other: <u>Telecommunications Management</u>
ICENSING	/Pricing	
3. 4.	License fee is: Turnkey system availab Basic (minimal) softwar	
JSER BAS	E	
6	Total number of license	ed users: 50
	Number of licensed use	
••	Trainibor or moonlood do	Asia:
		Australia:
		Europe:
		North America: 50
		South America:
8.	Year of first installation	· · · · · · · · · · · · · · · · · · ·
SUPPORT/U	IDDATES	
JOPP ON I/C	OFDATES	
9.	Training available: ■ (	Courses U Videos U Tutorials U Other:
10.	_	able: □ Worldwide □ Not Available ■ Other: <u>US</u>
11.	• •	sluded in License ■ Other: <u>Annual support fee</u>
12.	= =	nnually ☐ Semiannually ■ Other: <u>As available</u>
		Cluded in License or Maintenance Contract Other: As necessary

Documentation/Interface					
			_		
	System documentation availab				
15.	Languages available: ☐ Arabic		□ Bengali	-	☐ French
			☐ Hindi	·	☐ Mandarin
				□ Spanish	☐ Other:_
	Online help: ■ Basic □ Contex				
17.	User interface: ■ Command				nus
	☐ User-Gene	rated Macro	s 🗆 Other:		
TECHNICAL	/FUNCTIONAL				
40				DO DOOM#: 1	
18.	Operating systems supported:				
				Intosh 🗆 PC-OS/2	2 U OS/2 WARP
40	Minimum bandanan andimumi		MS □ Other:_		and the same the same of states as
19.	3	on: <u>486</u>	33NIHZ, 4NIB 0	or RAM, mouse with	n drivers, nard drive,
	<u>Windows</u>				
20.	Devices supported:				
		INPUT		001	PUT
	☐ Digitizers:				
	☐ Frame Grabbers:				
	☐ Scanners:				
	□ GPS:				
	□ CD-ROM:				
	☐ Diskette:				
	☐ Tape:				
	☐ Displays:				
	☐ Film Recorders:			-	
	☐ Electrostatic Plotters:				
	☐ Pen Plotters:				
	☐ Ink Jet Printers:			_	
	☐ Laser Printers:				
<b>-</b>	■ Others: All Windows-supporte				
21. Sou	rce code available: ♦ Yes: ☐ C	⊔ C++ ⊔	IFORTRAN (	⊒ Pascal □ Other	<u>:</u>
	♦ No				
	ch capability: ♦ Yes ♦ No				
23. Link	cable libraries for data structure	access: ◊			
				al □ Other:	<u> </u>
			No		
	grated Data Base Management S	•			
25. Data	a Base File Types Supported:			MS □ INFO □ Int	ergraph
				adox ☐ Progress	
		□ Sybase	☐ Other:		
26. Data	a Exchange Formats Supported:	MAPINFO	<u>)                                    </u>		

27. If GIS Product: ■ Vector □ Raster

28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
Topographical Structuring	□ Datum Changes
Network Flow Analysis	Vector Overlay Analysis
Cell-based (Raster) Modeling	□ Surface Modeling
■ Map Composition/Generation	■ Buffer generation
□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
Edgematching	☐ Map Joining
29. Image Processing Functionality:	
☐ Interactive Display	☐ Image Enhancement
Geometric Rectification	□ Spatial Filtering
Image Mosaicking	☐ Fourier Analysis
Radiometric Corrections	□ Multivariate/Statistical Analysis
Raster GIS Modeling	□ Radar Geocoding & Analysis
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
□ Filtering	□ Density Slicing
Supervised Classification	Unsupervised Classification
30. Multi-user Capability: ◆ Yes ◊ No	
31. Expert system capability: ♦ Yes ♦ No	

Please describe additional features: "TGIS" is a custom program designed to facilitate outside plant management for telecommunications and other related industries.

32. Spatial index supported: ♦ Yes ◊ No33. Object Oriented Architecture: ◊ Yes ♦ No

# PRODUCT NAME: TNTmips (The Map and Image Processing System)

COMPANY/ORGANIZATION		
Company Name: Microlmages, Inc.	<del>-</del>	
Contact Person(s): Terry Peterson	<del>-</del>	
Street Address: 201 N. 8th St.	<del>-</del>	
City, State: Lincoln, NE	<del>.</del>	
<b>Zip, Country</b> : 68508-1347, USA	<del>.</del>	
Phone: 402-477-9554	<del>-</del>	
Fax:	-	
Email: info@microimages.com	-	
1. Type of product:		
■ GIS ■ Image Processing □ AM/FM ■ CAD ■ Other: Desktop cartography relational dB		
LICENSING/PRICING		
2. Is the product public domain <i>or</i> commercial?		
◆ Commercial Product		
Licensed by: ■ User □ System □ Site □ Other:		
License fee is: ■ One Time Charge □ Other Charge:		
3. Turnkey system available (bundled hardware & software): ◊ Yes ♦ No		
4. Basic (minimal) software system cost: US \$3000 for MS Windows; US \$10000 for Workstations		
5. Complete (fully capable) software system cost: US \$3000		
User Base		
OUR BACE		
C. Total number of licensed upons, 4500		
<ol> <li>Total number of licensed users: 1500</li> <li>Number of licensed users by continent: Africa: 100</li> </ol>		
7. Number of licensed users by continent: Africa: 100		
Asia: 40		
Asia: 40 Australia: 80		
Asia: <u>40</u> Australia: <u>80</u> Europe: <u>120</u>		
Asia: <u>40</u> Australia: <u>80</u> Europe: <u>120</u> North America: <u>1160</u>		
Asia: 40 Australia: 80 Europe: 120		
Asia: 40  Australia: 80  Europe: 120  North America: 1160  South America: 100		
Asia: 40  Australia: 80  Europe: 120  North America: 1160  South America: 100		
Asia: 40  Australia: 80  Europe: 120  North America: 1160  South America: 100  8. Year of first installation: 1986		
Asia:40		

	System documentation availal	ole as: ■ H	lardcopy ■ E	lectronic Files	
15.	Languages available: 🗆 Arabid		□ Bengali	■ English	☐ French
	■ Germa	an	☐ Hindi	□ Japanese	Mandarin
	☐ Portug	guese	■ Russian	■ Spanish	☐ Other:_
16.	Online help: ☐ Basic ☐ Conte	ext Sensitive	■ Hypertext	□ N/A	
17.	User interface: ☐ Command	Line 🖵 Me	enus 🗆 User-	Customizable Me	enus
	☐ User-Gene	erated Macro	os 🗆 Other:_	totally interact wir	ndows_
HNICAL	/FUNCTIONAL				
40		<b>—</b> 118112/0	( Min days =	DO DOGANIS des	wa ■ W/a dawa 05
18.	Operating systems supported				
					S/2 □ OS/2 WARP
	If LINIV/V Windows list wonders		MS ☐ Other:_		orio 1 y and 2 y) SCI
	If UNIX/X-Windows, list vendors IRIS, HP HPUX, IBM AUX 3.x an		-		·
40		•			
	Minimum hardware configurat	ion: Standa	ard PC with 16	IVID, WORKStation	WILLI TOINIB.
20.	Devices supported:	INDUT		011	ITDUT
	<b>–</b> B: W	INPUT		00	ITPUT
	■ Digitizers: most all				
	■ Frame Grabbers: Targa boar	as and otner	<u>s via</u>		
	_ "Twain"				
	Coopporer All with Twein driv	0.00			
	Scanners: All with Twain driv				
	■ GPS: via dBase import				
	■ GPS: via dBase import ■ CD-ROM: any supported by	system			
	<ul> <li>■ GPS: via dBase import</li> <li>■ CD-ROM: any supported by</li> <li>■ Diskette: any supported by see</li> </ul>	system ystem			
	<ul> <li>■ GPS: via dBase import</li> <li>■ CD-ROM: any supported by</li> <li>■ Diskette: any supported by sy</li> <li>■ Tape: 8mm and open reel Company</li> </ul>	system ystem		Δ.	by which work with the platforms
	<ul> <li>■ GPS: via dBase import</li> <li>■ CD-ROM: any supported by</li> <li>■ Diskette: any supported by see</li> </ul>	system ystem			
	<ul> <li>■ GPS: via dBase import</li> <li>■ CD-ROM: any supported by</li> <li>■ Diskette: any supported by s</li> <li>■ Tape: 8mm and open reel C</li> <li>■ Displays:</li> </ul>	system ystem		<u>a</u>	nd OSs supported
	■ GPS: via dBase import ■ CD-ROM: any supported by ■ Diskette: any supported by su	system ystem		<u>a</u> Via TIFF and	nd OSs supported
	■ GPS: via dBase import ■ CD-ROM: any supported by □ Diskette: any supported by su	system ystem		<u>a</u> <u>Via TIFF and</u> All	nd OSs supported
	■ GPS: via dBase import ■ CD-ROM: any supported by Diskette: any supported by State: any supported by	system ystem		a Via TIFF and AII A	nd OSs supported I TARGA III with HPGL
	■ GPS: via dBase import ■ CD-ROM: any supported by □ Diskette: any supported by su	system ystem			nd OSs supported I TARGA II with HPGL e via PostScript and
	■ GPS: via dBase import ■ CD-ROM: any supported by suppo	system ystem		Via TIFF and All All of any size	I TARGA  II with HPGL  e via PostScript and Vindows drivers
	■ GPS: via dBase import ■ CD-ROM: any supported by Diskette: any supported by State: any supported by	system ystem		Via TIFF and All All of any size	I TARGA  II with HPGL  e via PostScript and  Vindows drivers  II of any size via PostScript and
	■ GPS: via dBase import ■ CD-ROM: any supported by suppo	system ystem CT		Via TIFF and All All of any size	I TARGA  I with HPGL  e via PostScript and Vindows drivers
1. Sou	■ GPS: via dBase import ■ CD-ROM: any supported by suppo	system ystem CT		a Via TIFF and AII AII of any size V A	nd OSs supported I TARGA II with HPGL e via PostScript and Vindows drivers II of any size via PostScript and Vindows drivers
1. Sou	■ GPS: via dBase import ■ CD-ROM: any supported by suppo	system ystem CT		a Via TIFF and AII AII of any size V A	nd OSs supported I TARGA II with HPGL e via PostScript and Vindows drivers II of any size via PostScript and Vindows drivers

♦ No

24. Integrated Data Base Management System: ♦ Yes ◇ No

25. Data Base File Types Supported:	■ dBase ■ Foxbase □ IMS □ INFO □ Intergraph
	☐ Lotus ☐ Oracle ☐ Paradox ☐ Progress
	☐ Sybase ☐ Other:
26. Data Exchange Formats Supported:	many for rasters, topological vectors, CAD, TINs, dB
27. If GIS Product: ■ Vector ■ Raster	
28. GIS Functionality:	
■ Map Digitizing	■ Map Display & Query
■ Digital Map Editing	■ Change Map Projections
■ Topographical Structur	ing ■ Datum Changes
■ Network Flow Analysis	■ Vector Overlay Analysis
■ Cell-based (Raster) Mo	deling ■ Surface Modeling
■ Map Composition/General	eration   Buffer generation
■ Raster-Vector Conversion	ion ■ Line-of-Sight Analysis
■ Edgematching	■ Map Joining
29. Image Processing Functionality:	
■ Interactive Display	■ Image Enhancement
■ Geometric Rectification	■ Spatial Filtering
■ Image Mosaicking	■ Fourier Analysis
■ Radiometric Correction	s ■ Multivariate/Statistical Analysis
■ Raster GIS Modeling	■ Radar Geocoding & Analysis
■ Hardcopy Map Comp.//	Anno. ■ Principal Components Analysis
■ Filtering	■ Density Slicing
■ Supervised Classification	on    Unsupervised Classification
<b>30. Multi-user Capability: ◆</b> Yes ◊ No	
31. Expert system capability: ♦ Yes ◆ N	0

Please describe additional features: Many. Detailed brochures available on request.

32. Spatial index supported: ◆ Yes ◊ No33. Object Oriented Architecture: ◆ Yes ◊ No

PRODUCT NAME: TracTrix

Сомра	NY/ORGANIZATION	
	Company Name:	Trix Systems, Inc.
	Contact Person(s):	Chris Sweetnam
	Street Address:	68 Smith St.
	City, State:	Chelmsford, MA
	Zip, Country:	01824, USA
	Phone:	800-326-4443 or 508-256-4445
	Fax:	508-256-9593
	Email:	sweetnam@trixsystems.com
	1. Type of product: ☐ GIS ■ Image Proces	ssing □ AM/FM ■ CAD □ Other:
LICENS	ING/PRICING	
	2. Is the product public d	
	◆ Commercial Pro	
		User ■ System □ Site □ Other: \$130-950
		■ One Time Charge □ Other Charge:
		ble (bundled hardware & software): ♦ Yes ♦ No
	• •	re system cost: \$130
	5. Complete (fully capable	e) software system cost: \$950
USER E	BASE	
	6. Total number of licens	ed users: <u>&gt;2,500</u>
	7. Number of licensed us	ers by continent: Africa:
		Asia:
		Australia:
		Europe:
		North America:
		South America:
	8. Year of first installation	n:1992
Suppor	RT/UPDATES	
	9. Training available: □	Courses □ Videos □ Tutorials ■ Other: <u>Consulting</u>
	<u>-</u>	able: ■ Worldwide □ Not Available □ Other:
		cluded in License  Other:
	• •	nnually □ Semiannually ■ Other:
	•	·
1	is. Cost of updates: 🗆 Inc	cluded in License or Maintenance Contract ■ Other:

DOCUMEN	ITATION/INTERFACE				
44	0	I <b>=</b> 11		la ataunia Eilaa	
	System documentation availab				5.5
15.	Languages available: ☐ Arabic		Bengali	•	□ French
	■ Germa		l Hindi	•	
	<u> </u>	uese		•	■ Other: <u>Swedish</u>
	Online help: ☐ Basic ☐ Contex		= =		
17.	User interface: ☐ Command				us
	☐ User-Gene	rated Macros	□ Other:		
TECHNICA	L/FUNCTIONAL				
18	Operating systems supported:	□ HNIX/X-\	Nindows ■	PC-DOS/Windows	■ Windows95
10.	operating systems supported.			Intosh PC-OS/2	
					L GOOZ WAR
19.	Minimum hardware configuration				
20.	_	on. <u>Hot repo</u>	<u>rteu</u>		
20.	Devices supported.	INDUT		OUT	BUT
	D. Divitinos	INPUT		OUT	PUI
	☐ Digitizers:				
	☐ Frame Grabbers:				
	■ Scanners: TWAIN and others				
	GPS:				
	□ CD-ROM:				
	☐ Diskette:				
	☐ Tape:				
	☐ Displays:			-	
	☐ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:				
	■ Ink Jet Printers:				
	■ Laser Printers:				
24 50	☐ Others:				
21. 50	urce code available:   Yes:  C	UC++ UI	-ORTRAN (	⊒ Pascai ⊒ Otner	·
00.5	♦ No				
	tch capability: ♦ Yes ♦No		,	0 = 50DTD44	
23. Lin	kable libraries for data structure	access: 💠 Y			
				al □ Other:	<del></del>
	egrated Data Base Management S	-			
25. Da	ta Base File Types Supported:			MS □ INFO □ Inte	ergraph
				adox ☐ Progress	
		□ Sybase □			
26. Dat	ta Exchange Formats Supported:	Many raster	formats		

**27. If GIS Product:** □ Vector □ Raster

28. GIS Functionality:

	■ Map Digitizing	☐ Map Display & Query
	☐ Digital Map Editing	Change Map Projections
	☐ Topographical Structuring	□ Datum Changes
	□ Network Flow Analysis	Vector Overlay Analysis
	☐ Cell-based (Raster) Modeling	☐ Surface Modeling
	■ Map Composition/Generation	Buffer generation
	■ Raster-Vector Conversion	☐ Line-of-Sight Analysis
	☐ Edgematching	□ Map Joining
29. Image Proce	essing Functionality:	
	☐ Interactive Display	☐ Image Enhancement
	☐ Geometric Rectification	☐ Spatial Filtering
	☐ Image Mosaicking	☐ Fourier Analysis
	☐ Radiometric Corrections	<ul> <li>Multivariate/Statistical Analysis</li> </ul>
	☐ Raster GIS Modeling	□ Radar Geocoding & Analysis
	☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
	☐ Filtering	Density Slicing
	□ Supervised Classification	Unsupervised Classification
30. Multi-user C	apability: ◊ Yes ◊ No	
31. Expert syste	em capability: ◊ Yes ◊ No	
22 Chatial inda	x supported: ♦ Yes ♦ No	

Please describe additional features: Trix Systems, Inc. provides software applications for automatic paper- to-CAD (raster to vector) conversion, scanning, viewing, redlining, image file format conversion (including vector to raster), network based engineering document management and facilities management.

33. Object Oriented Architecture: ♦ Yes ♦ No

PRODUCT NAME: TRANSCAD

Сомра	NY/ORGANIZATION	
(	Company Name:	Caliper Corporation
(	Contact Person(s):	Graham Barrowman
;	Street Address:	1172 Beacon Street
(	City, State:	Newton, MA
7	Zip, Country:	02161-9926, USA
I	Phone:	617-527-4700
İ	Fax:	617-527-5113
İ	Email:	graham@caliper.com
	1. Type of product: ■ GIS □ Image Proces	ssing
LICENSI	ING/PRICING	
	2. Is the product public do  ◆ Commercial Pro- Licensed by: ■	
	License fee is:	■ One Time Charge □ Other Charge:
	3. Turnkey system availal	ole (bundled hardware & software): ◆ Yes ◊ No
	4. Basic (minimal) softwa	re system cost: \$2995
	5. Complete (fully capable	e) software system cost: \$10,000
USER B	SASE	
	6. Total number of license	ed users: N/A
	7. Number of licensed us	ers by continent: Africa: N/A
		Asia: <u>N/A</u>
		Australia: N/A
		Europe: N/A
		North America: N/A
		South America: N/A
	8. Year of first installation	ı: <u>1989</u>
Cupper	/! lan	
SUPPOR	RT/UPDATES	
	9. Training available: ■	Courses □ Videos ■ Tutorials □ Other:
1	0. Software support avail	able: ■ Worldwide □ Not Available □ Other:
1	1. Cost of support:   Inc	luded in License ■ Other: Annual maintenance fee
1	2. Software updates: □ A	nnually □ Semiannually ■ Other:
1	3. Cost of updates: ■ Inc	cluded in License or Maintenance Contract

14.	System documentation available	le as: ■ Ha	rdcopy 🖵 E	lectronic Files	
15.	Languages available:   Arabic	Į	⊒ Bengali	■ English	☐ French
	☐ Germa	n [	⊒ Hindi	□ Japanese	☐ Mandarin
	☐ Portugu	uese	⊒ Russian	☐ Spanish	☐ Other:_
16.	Online help: ☐ Basic ☐ Contex	t Sensitive	☐ Hypertext	□ N/A	
17.	User interface: ☐ Command	Line ■ Mer	nus 🗆 User-	-Customizable Men	us
	☐ User-Gener	rated Macros	■ Other:	toolbar/toolbox	
			·	<u> </u>	
TECHNICAL	L/FUNCTIONAL				
18.	Operating systems supported:	□ UNIX/X-	Windows <b>■</b>	PC-DOS/Windows	s □ Windows95
		■ Windows	s/NT □ Mad	Intosh 🗆 PC-OS/2	2 □ OS/2 WARP
		□ VAX/VM	S 🗆 Other:_		
19.	Minimum hardware configuration	on: <u>80486,</u>	8 MB RAM, C	CD-ROM drive	
20.	Devices supported:				
		INPUT		OUT	PUT
	■ Digitizers: Wintab compliant				
	☐ Frame Grabbers:				
	Scanners: Windows complian	t			
	■ GPS: Trimble mobile GPS				
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	■ Displays:			<u>Hi</u>	gh resolution
	☐ Film Recorders:				
	■ Electrostatic Plotters:				
	■ Pen Plotters:			Any	Windows compliant output device
	■ Ink Jet Printers:				
	■ Laser Printers:				
	■ Others:				
21. Sou	ırce code available: ◊ Yes: ☐ C	□ C++ □	FORTRAN	□ Pascal □ Other	<u>:</u>
	♦ No				
22. Bate	ch capability: ♦ Yes ◊ No				
	kable libraries for data structure	access: ◊ \	∕es: □C □	C++ □ FORTRAN	J
				al □ Other:	
		<b>•</b>		ou - Outer	_
24 Inte	grated Data Base Management S				
	a Base File Types Supported:	-		IMS □ INFO □ Into	argraph
ZJ. Ddli	a base riie Types Supported:				zi Ai ahii
				radox  Progress	DDMC
00 D.1	- Evahana Fannsata Ossasa ( . )	-		ODBC compliant	
	a Exchange Formats Supported:	AKC/INFO	, MAP/INFO,	ATLAS, DXF, OS	<u>NIF</u>
	IS Product: ■ Vector ■ Raster				
28. GIS	Functionality:				

DOCUMENTATION/INTERFACE

■ Map Digitizing ■ Map Display & Query ■ Change Map Projections ■ Digital Map Editing ■ Topographical Structuring ■ Datum Changes ■ Network Flow Analysis ■ Vector Overlay Analysis □ Cell-based (Raster) Modeling ■ Surface Modeling ■ Map Composition/Generation ■ Buffer generation □ Raster-Vector Conversion ■ Line-of-Sight Analysis □ Edgematching ■ Map Joining 29. Image Processing Functionality: ☐ Interactive Display ☐ Image Enhancement ☐ Geometric Rectification □ Spatial Filtering ■ Image Mosaicking □ Fourier Analysis □ Radiometric Corrections ☐ Multivariate/Statistical Analysis ☐ Raster GIS Modeling □ Radar Geocoding & Analysis ■ Hardcopy Map Comp./Anno. ☐ Principal Components Analysis □ Filtering □ Density Slicing □ Supervised Classification ☐ Unsupervised Classification 30. Multi-user Capability: ♦ Yes ◊ No 31. Expert system capability: ♦ Yes ♦ No 32. Spatial index supported: ♦ Yes ◊ No 33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: GIS development kit - supports the creation of map server applications, macro programs and custom user interfaces. Support for OLE 2.0 and open database connectivity (ODBC).

PRODUCT NAME: VISTA

COMPANY/	ORGANIZATION							
_								
	mpany Name:		_					
	ntact Person(s):							
	eet Address:							
City	y, State:	•						
Zip	, Country:	95035, USA						
Pho	one:	408-432-3400						
Fax	<b>(</b> :	408-433-0965						
Em	ail:	jhuyghe@i2s.com						
		cessing 🛭 AM/FM	□ CAD □ Other:					
LICENSING	PRICING							
	<u> </u>							
USER BAS	Ē							
•	Tatal months of Page	4500						
	Total number of lice		A(: 400					
7.	Number of licensed	users by continent:	Africa: 100					
			Asia: 500					
			Australia: 20					
			Europe: 200					
			North America: 600					
•	Vacual finat in stallati	1075	South America: 80					
8.	Year of first installati	on: <u>1975</u>						
SUPPORT/U	IPDATES							
001101(170	JI DATEO							
9. 10. 11. 12.	Software support av Cost of support: ■	ailable: ■ Worldwide Included in License ■	■ Tutorials □ Other: □ Not Available □ Other: ■ Other:yearly fee nually □ Other:					
13.		-	Maintenance Contract □ Other:					

DOCUMEN.	TATION/INTERFACE											
	•											
	System documentation available as: ■ Hardcopy ■ Electronic Files											
15.	Languages available: ☐ Arabic	☐ Beng	•	French								
	☐ Germai			□ Mandarin								
	☐ Portugu			☐ Other:								
	Online help: ■ Basic ■ Contex	t Sensitive ■ Hyp	ertext □ N/A									
17.	. <b>User interface</b> : ■ Command Line ■ Menus □ User-Customizable Menus											
	■ User-Gener	ated Macros 🔲 O	ther:									
TECHNICAL	L/FUNCTIONAL											
18.	Operating systems supported:											
	□ Windows/NT □ MacIntosh □ PC-OS/2 □ OS/2 WARP □ VAX/VMS □ Other:											
	If UNIX/X-Windows, list vendors a											
	Minimum hardware configuration	on: <u>32MB RAM, 2</u>	00MB disk space, (110 s	SLQ, 100 SWAP)								
20.	Devices supported:											
		INPUT	OUT	ГРИТ								
	■ Digitizers: mouse, Calcomp, Al	<del>-</del> -										
	■ Frame Grabbers: Workstation	•	_									
	■ Scanners: <u>all TIFF, PostScript</u>	, BIL, BSQ types	_									
	■ GPS: support for ASCII, XYZ f		_									
	■ CD-ROM:											
	<u>-                                    </u>		<del></del>									
	■ Tape: 8mm, 9 track, 1/4 QIC											
	■ Displays:		·	l Windows								
	■ Film Recorders:		·	PostScript								
	■ Electrostatic Plotters:		•	PostScript								
	■ Pen Plotters:			TIFF and PostScript								
	■ Ink Jet Printers:		All TIFF and F	<u> </u>								
	Laser Printers:		AI	TIFF and PostScript								
04.0	□ Others:											
21. Sou	rce code available: ♦ Yes: □ C	☐C++ ☐FORT	RAN Li Pascal Li Othe	r:								
	♦ No											
	ch capability: ♦ Yes ♦ No											
23. Lini	kable libraries for data structure a											
			I Pascal ☐ Other:	<u> </u>								
		♦ No										
	grated Data Base Management S	=										
25. Data	a Base File Types Supported:		se 🗆 IMS 🗀 INFO 🗀 Inf	ergraph								
			□ Paradox □ Progress									
		☐ Sybase ☐ Other:										

26. Data Exchange Formats Supported: ERDAS, BIC, BSQ, TIFF, DXF

27. If GIS Product: ☐ Vector ■ Raster

## 28. GIS Functionality:

- Map Digitizing
- Digital Map Editing
- ☐ Topographical Structuring
- □ Network Flow Analysis
- Cell-based (Raster) Modeling
- Map Composition/Generation
- ☐ Raster-Vector Conversion
- Edgematching

## 29. Image Processing Functionality:

- Interactive Display
- Geometric Rectification
- Image Mosaicking
- Radiometric Corrections
- Raster GIS Modeling
- Hardcopy Map Comp./Anno.
- Filtering
- Supervised Classification
- 30. Multi-user Capability: ◆ Yes ◊ No
- 31. Expert system capability: ♦ Yes ♦ No
- 32. Spatial index supported: ♦ Yes ♦ No
- 33. Object Oriented Architecture: ♦ Yes ◊ No

☐ Map Display & Query

- Change Map Projections
- Datum Changes
- Vector Overlay Analysis
- □ Surface Modeling
- □ Buffer generation
- Line-of-Sight Analysis
- Map Joining
- Image Enhancement
- Spatial Filtering
  - Fourier Analysis
  - Multivariate/Statistical Analysis
  - Radar Geocoding & Analysis
  - Principal Components Analysis
  - Density Slicing
  - Unsupervised Classification

Please describe additional features: not reported

PRODUCT NAME: VTRAK for Open Systems

COMPANY/	Organization	
Coi	mpany Name: La	ser-Scan
Coi	ntact Person(s): Pa	ul Hardy
Str	eet Address: Ca	mbridge Science Park, Milton Road
City	y, <b>State</b> : Ca	mbridge
Zip	, Country:CE	84 4FY, UK
Pho	one:44	-01223-420414
Fax	<b>(</b> :44	-01223-420044
Em	ail:pa	ul@lsl.co.uk
1.		g □ AM/FM □ CAD ■ Other: <u>map data capture</u>
LICENSING	PRICING	
2.		
3.	Turnkey system available (	bundled hardware & software): ♦ Yes ♦ No
4.	Basic (minimal) software sy	ystem cost: not reported
<b>5</b> .	Complete (fully capable) so	oftware system cost: not reported_
USER BAS	E	
6.	Total number of licensed u	sers: not reported_
7.	Number of licensed users I	py continent: Africa:
		Asia:
		Australia:
		Europe:
		North America:
		South America:
8.	Year of first installation: 1	990_
SUPPORT/U	JPDATES	
9.	Training available: ■ Cour	ses □ Videos □ Tutorials □ Other:
10.		: ■ Worldwide □ Not Available □ Other:
11.		d in License ■ Other: <u>maintenance contract</u>
		ally □ Semiannually □ Other:
		ad in License or Maintenance Contract

	System documentation available  Languages available:   Arabic		ngali		☐ French
	□ German		•	•	
	□ Portugu		ssian	•	☐ Other:
16.	Online help: ☐ Basic ☐ Context			-	
		-		Customizable Men	us
	☐ User-Genera	ated Macros	Other: f	unction buttons, tra	ackball
HNICA	L/FUNCTIONAL				
18.	Operating systems supported:	■ UNIX/X-Wind	lows 🗆 F	PC-DOS/Windows	□ Windows95
		☐ Windows/NT	■ MacI	ntosh 🗆 PC-OS/2	2 □ OS/2 WARP
		UVAX/VMS	Other:_		
	If UNIX/X-Windows, list vendors ar	d window mana	gers supp	orted: <u>Sun SunC</u>	OS and Motif; Sun
	Solaris 2 and Motif; DEC Alpha UN	IX and Motif; IBN	/I AIX and	Motif; HP UX and	Motif; DEC Ultrix
	and Motif				
19.	Minimum hardware configuratio	n: Workstation	and 32N	IB memory	
20.	Devices supported:				
		INPUT		OUT	PUT
	☐ Digitizers:				
	☐ Frame Grabbers:				
	■ Scanners: TIFF, Scitex, Scan (	<u>Graphics</u>			
	☐ GPS:				
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:				
	■ Displays:			X-t	erminals
	☐ Film Recorders:				
	□ Electrostatic Plotters:				
	□ Pen Plotters:				
	Ink Jet Printers:			-	
	□ Laser Printers:				
	☐ Others:			DPascal □ Other	<u> </u>
1. Soı	urce code available: ◊ Yes: ☐ C		IRAN L		
	urce code available: ◇ Yes: □ C  ◆ No		IRAN L		
2. Bat	urce code available:	□ C++ □ FOR			
2. Bat	urce code available: ◇ Yes: □ C  ◆ No	□ C++ □ FOR	_C _	C++ □ FORTRAN	
2. Bat	urce code available:	□ C++ □ FOR  ccess: ◊ Yes:	_C _		
2. Bat 3. Lin	urce code available:	□ C++ □ FOR  ccess: ◊ Yes:  ♦ No	□ C □ □ Pasca	C++ □ FORTRAN	

DOCUMENTATION/INTERFACE

□ Lotus ■ Oracle □ Paradox □ Progress								
□ Sybase ■ Other: <u>INGRES</u>								
26. Data Exchange Formats Supported: DXF, ARC/INFO, GIF, TIFF								
27. If GIS Product: ■ Vector ■ Raster								
28. GIS Functionality:								
■ Map Digitizing	☐ Map Display & Query							
■ Digital Map Editing	■ Change Map Projections							
■ Topographical Structuring	■ Datum Changes							
Network Flow Analysis	Vector Overlay Analysis							
Cell-based (Raster) Modeling	□ Surface Modeling							
Map Composition/Generation	Buffer generation							
■ Raster-Vector Conversion	☐ Line-of-Sight Analysis							
■ Edgematching	☐ Map Joining							
29. Image Processing Functionality:								
Interactive Display	☐ Image Enhancement							
Geometric Rectification	□ Spatial Filtering							
Image Mosaicking	□ Fourier Analysis							
Radiometric Corrections	Multivariate/Statistical Analysis							
Raster GIS Modeling	Radar Geocoding & Analysis							
☐ Hardcopy Map Comp./Anno.	Principal Components Analysis							
☐ Filtering	□ Density Slicing							
Supervised Classification	Unsupervised Classification							
30. Multi-user Capability: ◆ Yes ◊ No								
31. Expert system capability: ◊ Yes ♦ No								
32. Spatial index supported: ◆ Yes ◊ No								

Please describe additional features: Automatic line-following digitizing: automatic height coding: bulk data capture; symbol recognition; text recognition; integration with LAMPS2 object-oriented mapping product

**33. Object Oriented Architecture:** ♦ Yes ◊ No

PRODUCT NAME: WinGIS

COMPANY	y/Organization						
C	ompany Name:	PROGIS					
C	ontact Person(s):	DI Walter H. Mayer					
St	treet Address:	Italienerstr. 3					
Ci	ity, State:	9500 Villach					
Zi	ip, Country:	Austria					
PI	hone:	43-4242-26332					
Fa	ax:	43-4242-26332-7					
Er	mail:	100102.2170@compuserve.com					
	. Type of product:  GIS Image Proces	sing □ AM/FM □ CAD ■ Other: <u>mapping, geo-multimedia</u>					
LICENSING	g/Pricing						
3. 4.	<ul> <li>2. Is the product public domain or commercial? <ul> <li>Commercial Product</li> <li>Licensed by: ■ User □ System □ Site □ Other:</li> <li>License fee is: ■ One Time Charge □ Other Charge: + update</li> </ul> </li> <li>3. Turnkey system available (bundled hardware &amp; software): ◊ Yes ◊ No</li> <li>4. Basic (minimal) software system cost: 1.495 US \$</li> <li>5. Complete (fully capable) software system cost: 6.995 US \$</li> </ul>						
USER BA	SE						
6.	. Total number of license	ed users: 600					
7.	. Number of licensed use	ers by continent: Africa: 4					
		Asia: 30					
		Australia: 50					
		Europe: 200					
		North America: 150					
		South America: 8					
8.	. Year of first installation	: <u>1993</u>					
SUPPORT	/UPDATES						
9.	. Training available: ■ (	Courses 🗆 Videos 🗅 Tutorials 🗅 Other:					
10.	. Software support availa	ıble: ■ Worldwide □ Not Available □ Other:					
11.	. Cost of support:  Incl	uded in License ■ Other: maintenance contract					
12.	. Software updates: 🗆 A	nnually  Semiannually Other:					
13.	Cost of undates: ■ Inc	luded in License or Maintenance Contract					

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_	u	u	IJΙV		<b>u</b> I <i>i</i>	ΑІ	 IN/	IIV		·ĸ	_	_	١.	_

14.	System documentation available	as: ■ Hardcopy ■	Electronic Files	
15.	Languages available: ■ Arabic	□ Bengali	■ English	■ French
	■ German	☐ Hindi	■ Japanese	☐ Mandarin
	■ Portugu	ese ■ Russian	■ Spanish	☐ Other:
16.	Online help: ■ Basic ■ Context	Sensitive ■ Hypertext	t □ N/A	
17.	User interface: ☐ Command L	ine ■ Menus □ Use	r-Customizable Men	us
	☐ User-Genera	ated Macros   Other:	WinMAP Developn	nent Station_
			(PROGIS SDK)	
TECHNICAI	L/FUNCTIONAL			
18.	Operating systems supported:	☐ UNIX/X-Windows ■	■ PC-DOS/Windows	s ■ Windows95
		■ Windows/NT ■ Ma		2 🗆 OS/2 WARP
		□ VAX/VMS □ Other:	·	
19.	Minimum hardware configuration	n: <u>PC ATZ 486; 8MB</u>	RAM; 50 MHz; hard	disk depends from
	project size.			
20.	Devices supported:			
		INPUT	OUT	PUT
	■ Digitizers: Aristo, Calcomp, Pol	•		
	Nearly all digitizers w	• •		
	<u>WinTAB</u>			
	☐ Frame Grabbers:			
	■ Scanners: <u>Hybrid systems for least</u>	<del>-</del>		
	■ GPS: link to all GPS receivers v			
	☐ CD-ROM:			
	☐ Diskette:			
	☐ Tape:			
	■ Displays:			" monitor +
	■ Film Recorders:		AVI format	
	■ Electrostatic Plotters:			orinters and plotters
	- B. B. W		·	ich have Windows drivers
	Pen Plotters:		·	ndows driver
	■ Ink Jet Printers:		Windows drive	
	■ Laser Printers:		<u></u>	ndows driver
24 500	☐ Others: Irce code available: ◇ Yes: ☐ C		—————————————————————————————————————	
21. 500		UC++ UFORTRAN	□ Pascai □ Otner	<u></u>
22. Bat	◆ No ch capability: ◊ Yes ◊ No			
	kable libraries for data structure a	ccess: ◊ Yes: □ C	□ C++ □ FORTRAN	N
		☐ Pas	scal 🗆 Other:	
		♦ No		
24. Inte	grated Data Base Management Sy	vstem: ♦ Yes ◇ No		
	-	■ dBase □ Foxbase □	IMS □ INFO ■ Inte	ergraph
	••		-	<b>.</b>

■ Lotus	■ Lotus ■ Oracle ■ Paradox ■ Progress				
■ Sybas	se ■ Other: <u>AS/400; DB 2; SQL</u>				
26. Data Exchange Formats Supported: yes					
27. If GIS Product: ■ Vector ■ Raster					
28. GIS Functionality:					
■ Map Digitizing	■ Map Display & Query				
■ Digital Map Editing	■ Change Map Projections				
■ Topographical Structuring	□ Datum Changes				
□ Network Flow Analysis	■ Vector Overlay Analysis				
Cell-based (Raster) Modeling	□ Surface Modeling				
■ Map Composition/Generation	Buffer generation				
Raster-Vector Conversion	■ Line-of-Sight Analysis				
Edgematching	■ Map Joining				
29. Image Processing Functionality:					
■ Interactive Display	□ Image Enhancement				
■ Geometric Rectification	□ Spatial Filtering				
Image Mosaicking	□ Fourier Analysis				
Radiometric Corrections	□ Multivariate/Statistical Analysis				
■ Raster GIS Modeling	■ Radar Geocoding & Analysis				
■ Hardcopy Map Comp./Anno.	□ Principal Components Analysis				
□ Filtering	□ Density Slicing				
Supervised Classification	Unsupervised Classification				
30. Multi-user Capability: ◆ Yes ◊ No					
31. Expert system capability: ◊ Yes ♦ No					
32. Spatial index supported: ♦ Yes ♦ No					

Please describe additional features: contact company

33. Object Oriented Architecture: ♦ Yes ◊ No

PRODUCT NAME: Xcable

COMPANY	Company/Organization				
Co	ompany Name:	Tekla Oy			
Co	ontact Person(s):	Risto Sajaniemi			
Sti	reet Address:	Koronakatu 1			
Cit	ty, State:	02210 Espoo			
_	p, Country:	Finland			
Ph	none:	358-0-8879500			
	ax:	358-0-8039489			
En	mail:	rs@tekla.fi			
1	Type of product:				
		sing ■ AM/FM □ CAD □ Other:			
LICENSING	G/PRICING				
2.	Is the product public do				
	◆ Commercial Prod				
		User System Site Other:			
_		One Time Charge  Other Charge:			
3.	• •	le (bundled hardware & software): ♦ Yes ♦ No			
4.					
5.	5. Complete (fully capable) software system cost: <u>available on request</u>				
USER BAS	USER BASE				
6.	Total number of license	d users:			
7.	Number of licensed use	rs by continent: Africa:			
		Asia:			
		Australia:			
		Europe:			
		North America:			
		South America:			
8.	Year of first installation:	1992			
SUPPORT/	/UPDATES				
9.	Training available: ■ ○	ourses D Videos D Tutorials D Other			
	_	<u></u>			
	Software support available: ☐ Worldwide ☐ Not Available ■ Other: <u>Europe</u>				
	. Cost of support: ☐ Included in License ■ Other: <u>maintenance agreement</u> . Software updates: ☐ Annually ■ Semiannually ☐ Other:				
14.	Cost of updates: ■ Included in License or Maintenance Contract □ Other:				

DOCUMEN	TATION/INTERFACE					
44	0			la stancia Ellas		
	System documentation available as: ■ Hardcopy ■ Electronic Files					
15.	Languages available: Arabic		□ Bengali	· ·	□ French	
	☐ Germa		☐ Hindi	•	☐ Mandarin	
	<u> </u>		Russian	•	☐ Other:	
	Online help: ☐ Basic ☐ Conte					
17.					ıs	
	☐ User-Gene	erated Macro	s □ Other:			
TECHNICAL	L/FUNCTIONAL					
18	Operating systems supported:	■ LINIX/X	-Windows 🗆	PC-DOS/Mindows	□ Windows95	
10.	Operating systems supported.			Intosh PC-OS/2		
					3 05/2 WART	
	If UNIX/X-Windows, list vendors a				\\N_N_\\\N_	
19	Minimum hardware configurati		-			
	Devices supported:	OII. <u> </u>	vorkstation/x to	zirili idi, disk zivib, d	act anve	
20.	Devices supported.	INPUT		OUT	DIIT	
	■ Digitizara, Calcaran eta	_		001	F01	
	■ Digitizers: Calcomp etc.					
	☐ Frame Grabbers:					
	☐ Scanners:					
	□ GPS:					
	CD-ROM:					
	■ Diskette:					
	■ Tape:					
	■ Displays:					
	☐ Film Recorders:					
	■ Electrostatic Plotters:			LID	Calcaran etc	
	■ Pen Plotters:				Calcomp, etc.	
	■ Ink Jet Printers:			Calcomp, HP,		
	Laser Printers:	a a ta r		_ Cai	non, HP, etc.	
21 50	■ Others: <u>Calcomp, drawing-mail</u> urce code available: ◊ Yes: □ C					
21. 300	Ince code available. ♦ res. ☐ C	, 40++ 4	IFORTRAIN	i Pascai i Othei.		
22 Rat	ch capability: ♦ Yes ♦ No					
	kable libraries for data structure	access. V	Vas: 🗆 C 🗇	C++ □ FORTRAN	1	
23. LIIII	nable libraries for data structure	access. v		al □ Other:		
		•	No	ai 🗖 Other	_	
24 Into	grated Data Base Management S					
	a Base File Types Supported:	-		MS □ INFO □ Inte	araranh	
zs. Dal	a base i lie Types Supported.				πισταριτ	
				adox □ Progress		
			□ Other:			

26. Data Exchange Formats Supported: DXF, FINGIS, several raster formats

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functi	onality:	
	■ Map Digitizing	■ Map Display & Query
	■ Digital Map Editing	■ Change Map Projections
	□ Topographical Structuring	□ Datum Changes
	□ Network Flow Analysis	Vector Overlay Analysis
	☐ Cell-based (Raster) Modeling	□ Surface Modeling
	□ Map Composition/Generation	Buffer generation
	□ Raster-Vector Conversion	☐ Line-of-Sight Analysis
	□ Edgematching	■ Map Joining
29. Image Prod	cessing Functionality:	
	■ Interactive Display	☐ Image Enhancement
	■ Geometric Rectification	☐ Spatial Filtering
	☐ Image Mosaicking	□ Fourier Analysis
	□ Radiometric Corrections	☐ Multivariate/Statistical Analysis
	□ Raster GIS Modeling	□ Radar Geocoding & Analysis
	☐ Hardcopy Map Comp./Anno.	Principal Components Analysis
	☐ Filtering	□ Density Slicing
	Supervised Classification	Unsupervised Classification

30. Multi-user Capability: ♦ Yes ♦ No
31. Expert system capability: ◊ Yes ♦ No
32. Spatial index supported: ♦ Yes ◊ No
33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: Xcable is a network planning and management software for fixed telecom networks. All functionality is graphics-oriented, for example, modelling and planning of the network structure. All the data is stored in an Oracle-database.

PRODUCT NAME: Xpower

Сомра	COMPANY/ORGANIZATION				
	Com	pany Name:	Tekla Oy		
	Cont	act Person(s):	Risto Sajaniemi		
	Stree	et Address:	Koronakatu 1		
	City,	State:	02210 Espoo		
	Zip, (	Country:	Finland		
	Phor	ne:	358-0-8879500		
	Fax:		358-0-8039489		
	Emai	il:	rs@tekla.fi		
		Type of product: ■ GIS □ Image Proces	sing ■ AM/FM	□ CAD □ Other:	
LICENS	SING/P	RICING			
	2. I	s the product public do	main <i>or</i> commerci	ial?	
		◆ Commercial Proc			
		-	<del>-</del>	☐ Site ☐ Other:	
			•	e 🗅 Other Charge:	
	3. Turnkey system available (bundled hardware & software): ◊ Yes ◊ No				
	4. Basic (minimal) software system cost: available on request				
	5. (	Complete (fully capable	) software system	cost: available on request	
USER E	BASE				
	6. 7	Total number of license	d users: 500		
		Number of licensed use		Africa: 50	
				Asia: 50	
				Australia:	
				Europe: 350	
				North America: 50	
				South America:	
	8. \	Year of first installation	<u> 1987</u>		
Support/Updates					
					_
	_				
		_		☐ Tutorials ☐ Other:	
				□ Not Available □ Other:	
		. Cost of support: ☐ Included in License ☐ Other: maintenance agreement			
		• • • • • • • • • • • • • • • • • • • •			
	13. (	B. Cost of updates: ■ Included in License or Maintenance Contract □ Other:			

DOCUME	NIAHON/INIERFACE				
14	. System documentation availab	le as: ■ Hardcony	■ Flectronic Files		
	. Languages available:   Arabic	□ Beng		□ French	
13	. Languages available. □ Alabic	_		☐ Mandarin	
		i ⊒ Fililoi lese ⊒ Russi	•	☐ Other:	
16	. Online help: ☐ Basic ■ Contex			d Other.	
	. User interface:   Command			nie.	
17		rated Macros 🚨 Ot		us	
	u Oser-Gener	aled Macros 🖵 Ot			
TECHNIC	AL/FUNCTIONAL				
I ECHNICA	ALTFUNCTIONAL				
18	. Operating systems supported:	■ UNIX/X-Window	vs 🛘 PC-DOS/Windows	☐ Windows95	
		□ Windows/NT	☐ MacIntosh ☐ PC-OS/2	2 □ OS/2 WARP	
		□ VAX/VMS □ C	other:		
	If UNIX/X-Windows, list vendors a	nd window manager	s supported: HP, vuewr	<u>n, mwm</u>	
19	. Minimum hardware configuration	on: UNIX-workstati	on/x-terminal, disk 2MB, o	dat-drive_	
20	. Devices supported:				
		INPUT	OUT	PUT	
	■ Digitizers: Calcomp etc.		_		
	☐ Frame Grabbers:		<u> </u>		
	☐ Scanners:		<del>_</del>		
	☐ GPS:		_		
	■ CD-ROM:				
	■ Diskette:				
	■ Tape:		_		
	■ Displays:				
	☐ Film Recorders:				
	■ Electrostatic Plotters:			0.1	
	Pen Plotters:		·	, Calcomp, etc.	
	■ Ink Jet Printers:		Calcomp, HP,		
	Laser Printers:	ata .	<u>_ Ca</u>	non, HP, etc.	
24 0-	Others: <u>Calcomp, drawing-ma</u> ource code available: ◊ Yes: □ C				
21. 50		UC++ UFORIR	AN Pascal Dotner	<u>.                                    </u>	
22 Ba	♦ No  Notch capability: ♦ Yes ♦ No				
		^ Vaa: 🗖		1	
23. Linkable libraries for data structure access: ♦ Yes: □ C □ C++ □ FORTRAN					
		◆ No	Pascal ☐ Other:	<del>_</del>	
24 154	egrated Data Base Management S		0		
	tegrated Data Base Management S Ita Base File Types Supported:	-		orgraph	
2J. Da	na base i ne Types Supported:		se □ IMS □ INFO □ Inte	ειγιαριι	
			□ Paradox □ Progress		
		- Sypase - Other	<u>.                                    </u>		

26. Data Exchange Formats Supported: DXF, FINGIS, several raster formats

27. If GIS Product: ■ Vector ■ Raster

28. GIS Functi	onality:		
	■ Map Digitizing	■ Map Display & Query	
	■ Digital Map Editing	■ Change Map Projections	
	☐ Topographical Structuring	Datum Changes	
	☐ Network Flow Analysis	Vector Overlay Analysis	
	☐ Cell-based (Raster) Modeling	Surface Modeling	
	□ Map Composition/Generation	Buffer generation	
	Raster-Vector Conversion	Line-of-Sight Analysis	
	□ Edgematching	■ Map Joining	
29. Image Pro	cessing Functionality:		
	■ Interactive Display	Image Enhancement	
	■ Geometric Rectification	☐ Spatial Filtering	
	☐ Image Mosaicking	☐ Fourier Analysis	
	Radiometric Corrections	Multivariate/Statistical Analysis	
	☐ Raster GIS Modeling	Radar Geocoding & Analysis	
	☐ Hardcopy Map Comp./Anno.	Principal Components Analysis	
	☐ Filtering	Density Slicing	
	□ Supervised Classification	Unsupervised Classification	

30. Multi-user Capability: ♦ Yes ♦ No
31. Expert system capability: ◊ Yes ♦ No
32. Spatial index supported: ♦ Yes ◊ No
33. Object Oriented Architecture: ◊ Yes ♦ No

Please describe additional features: Xcable is a network planning and management software for electric utility networks. All functionality is graphics-oriented, for example, modelling and planning of the network structure. All the data is stored in a relational database.